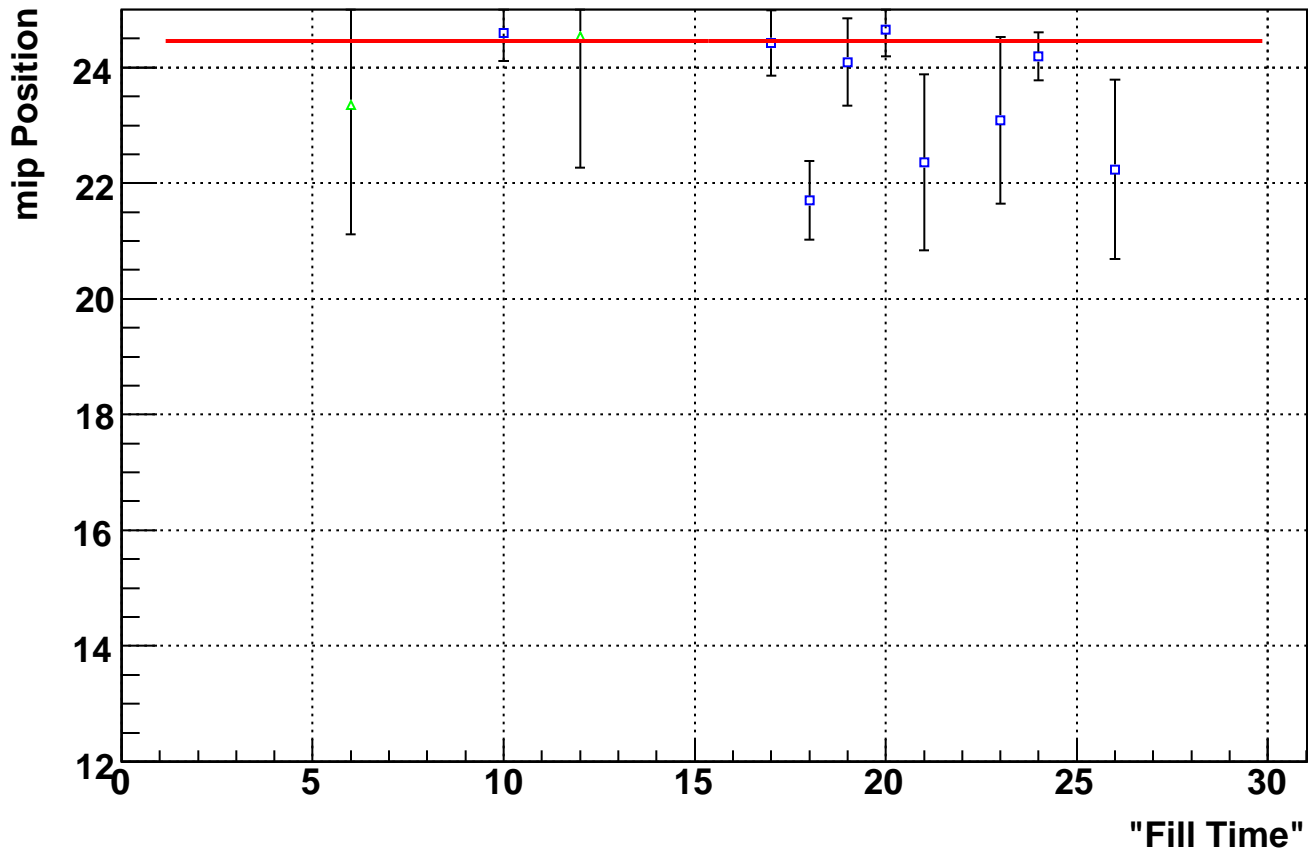
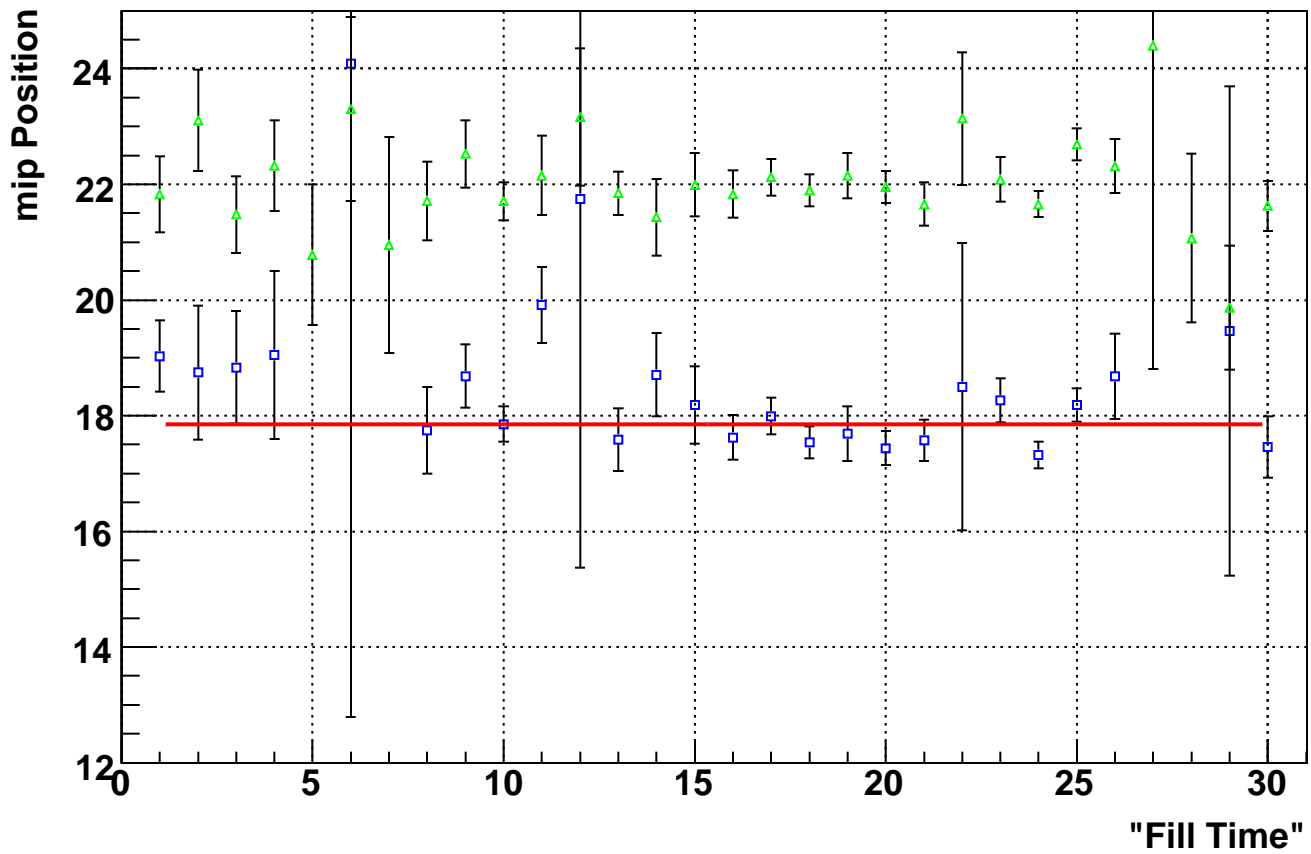


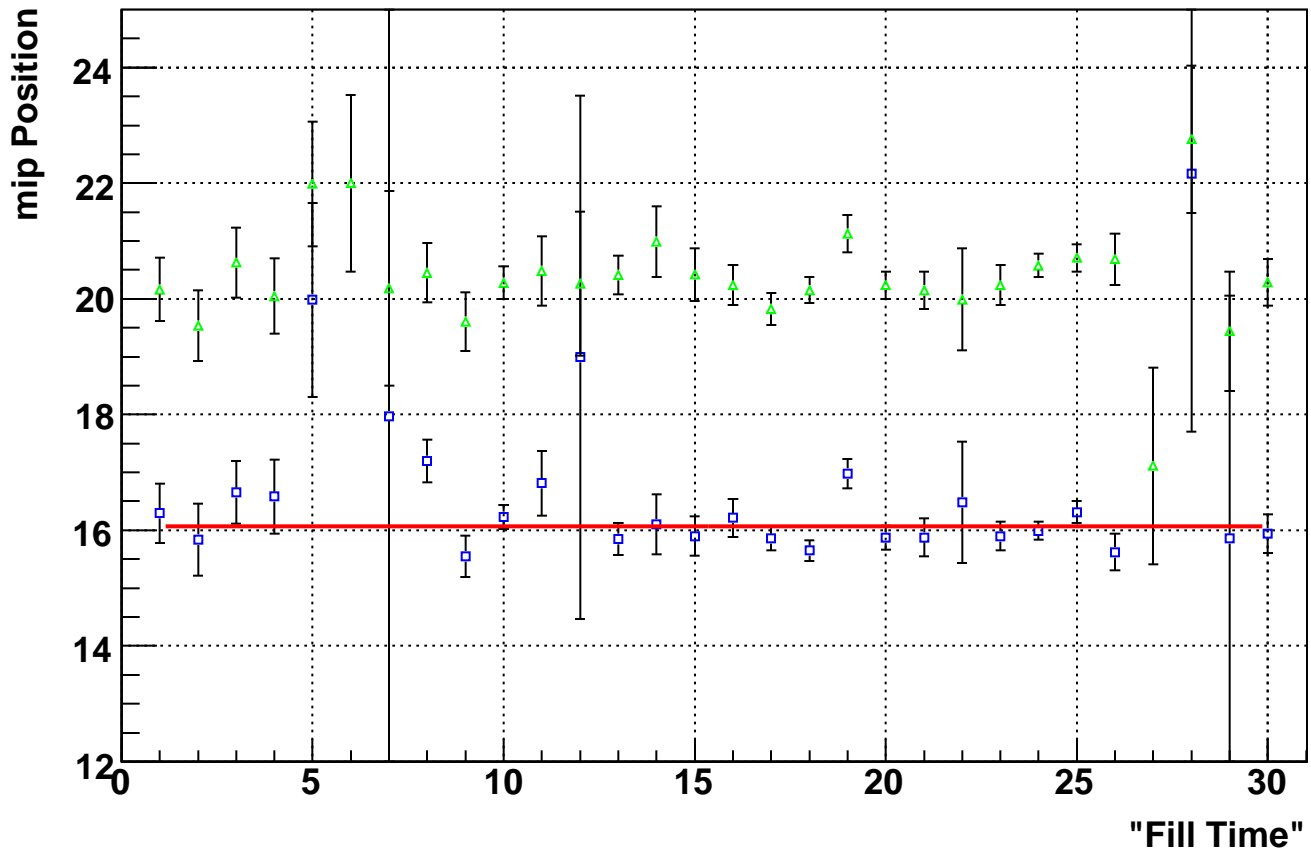
**Eta Bin 1 mip Positons Vs. Time**



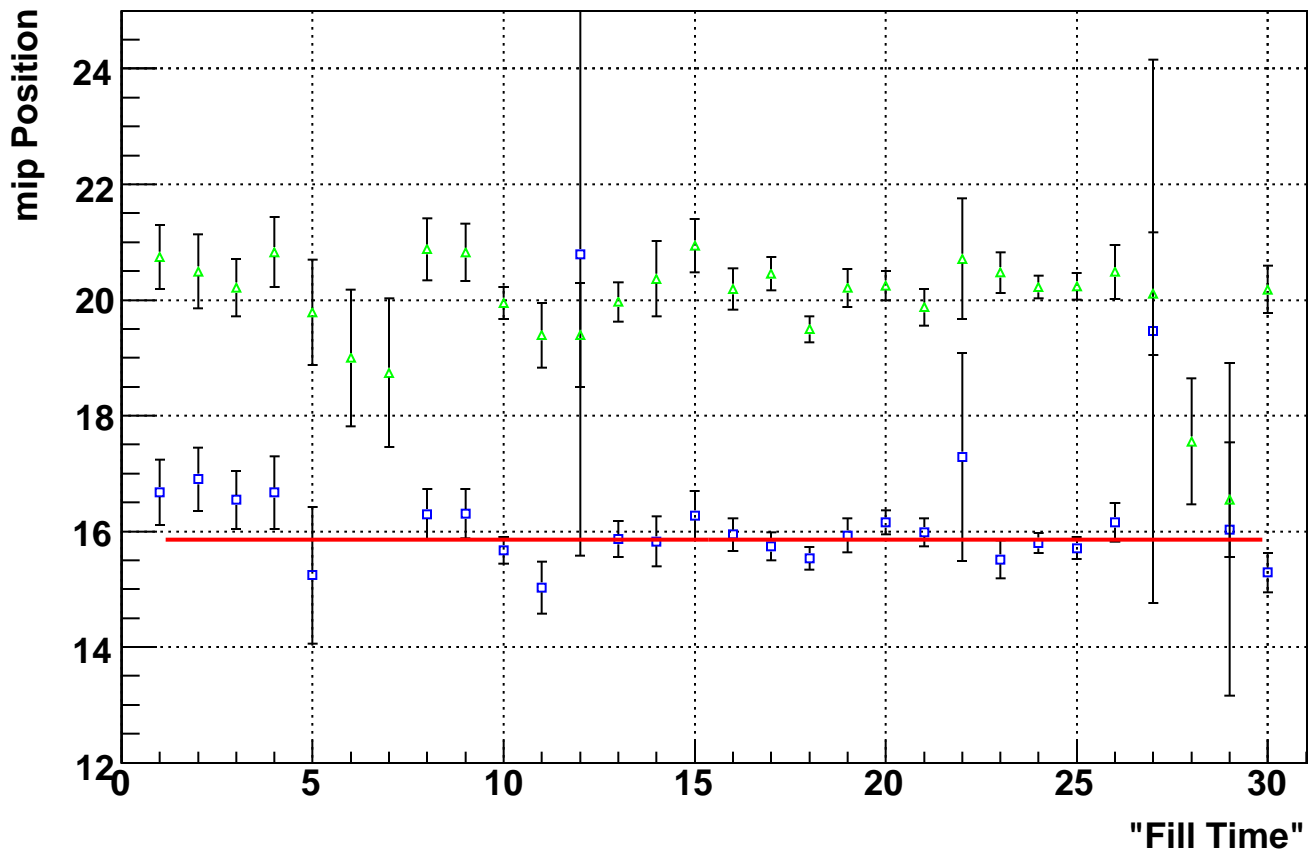
**Eta Bin 2 mip Positons Vs. Time**



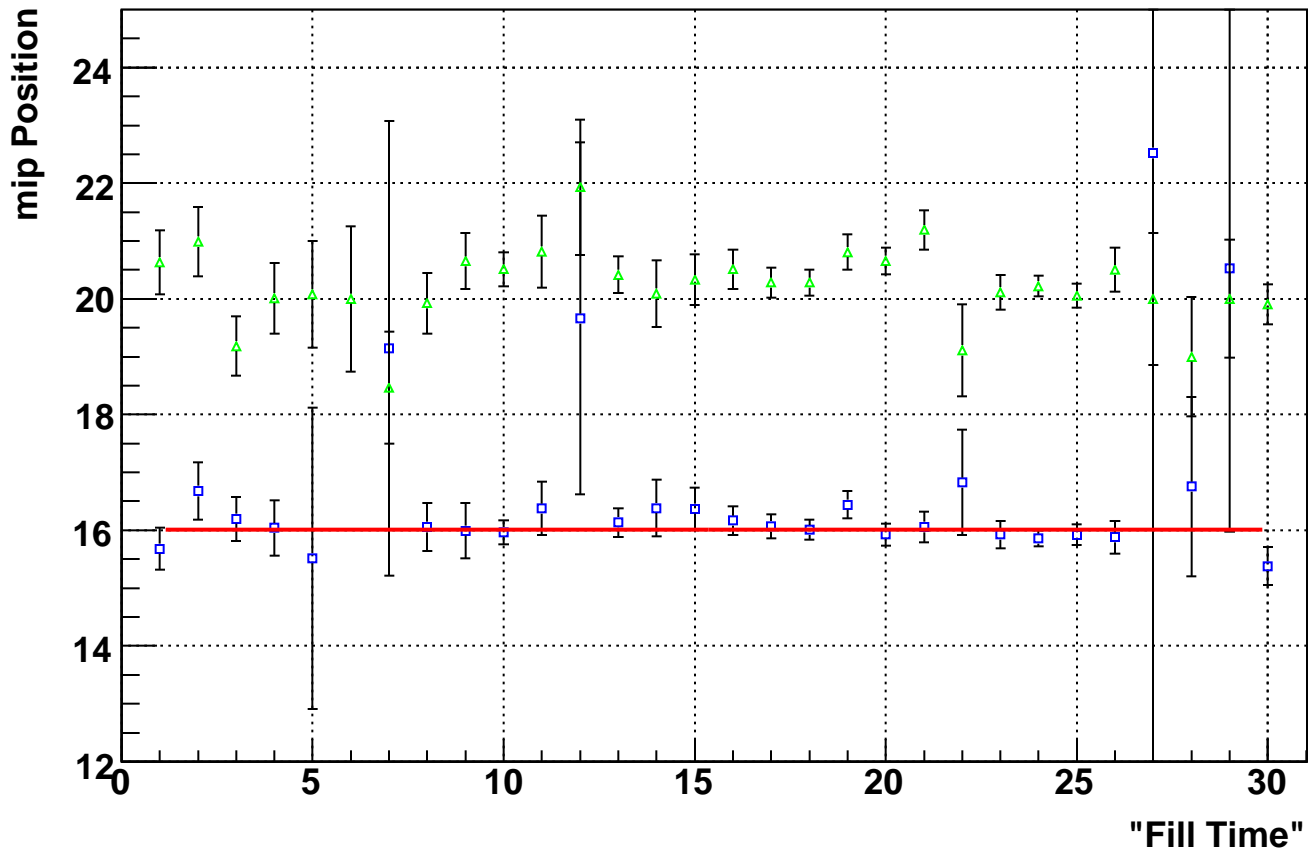
**Eta Bin 3 mip Positons Vs. Time**



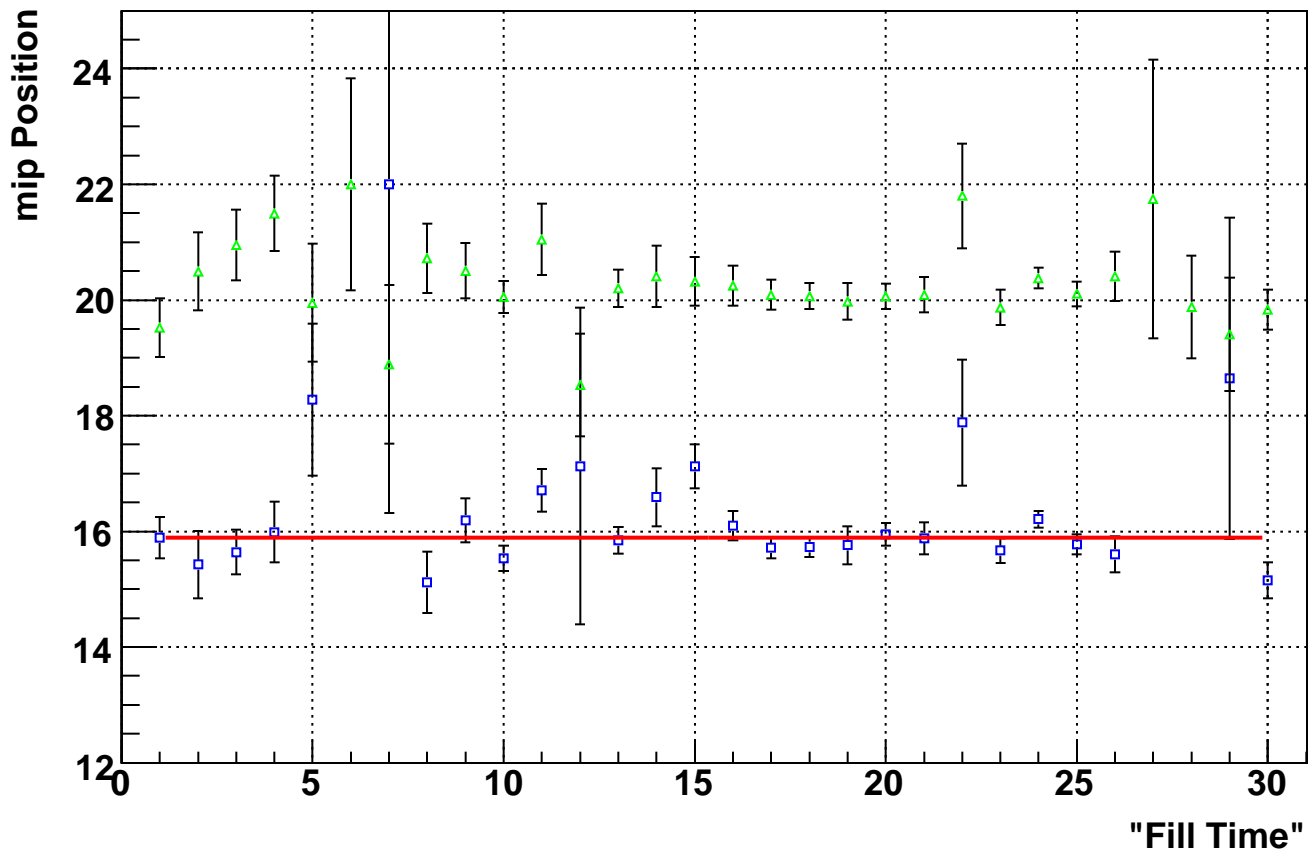
**Eta Bin 4 mip Positons Vs. Time**



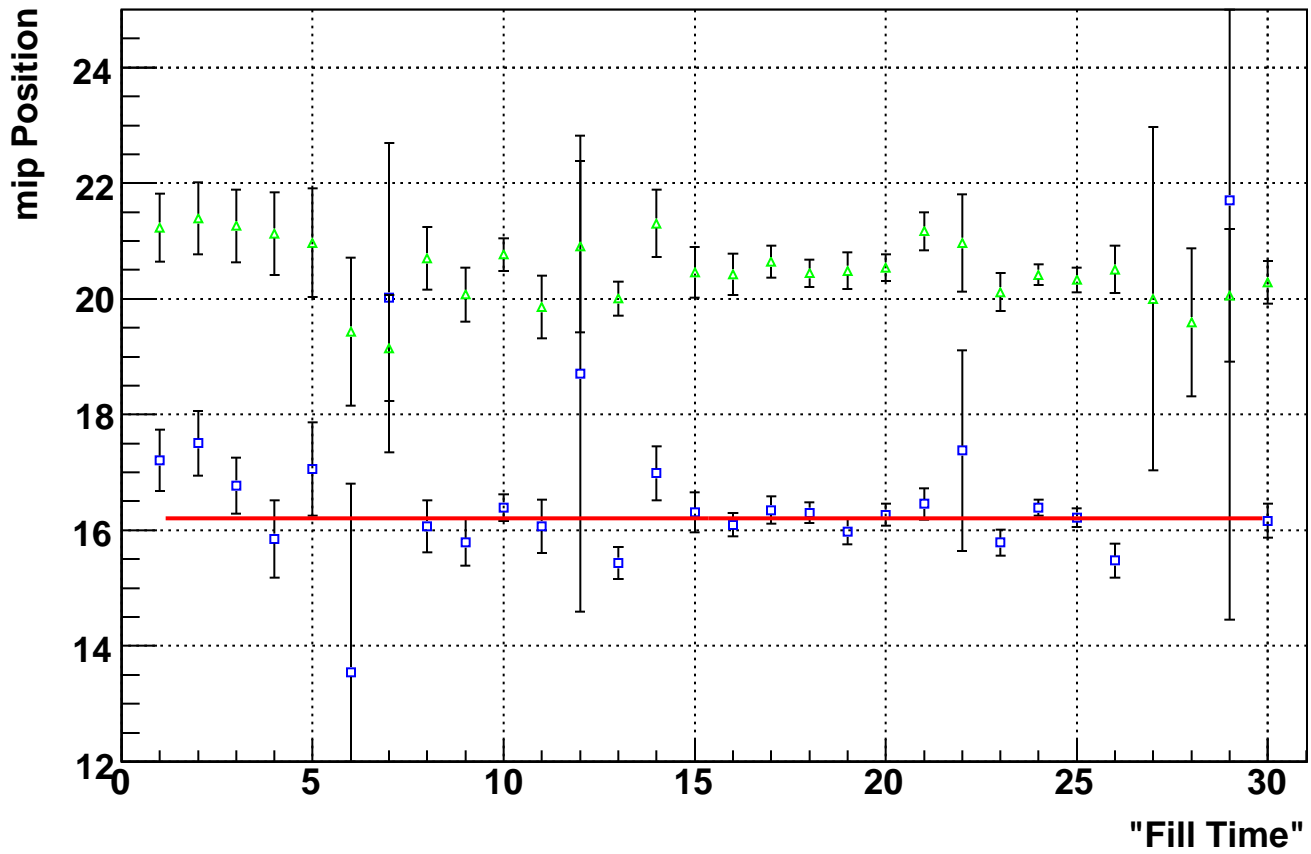
**Eta Bin 5 mip Positons Vs. Time**



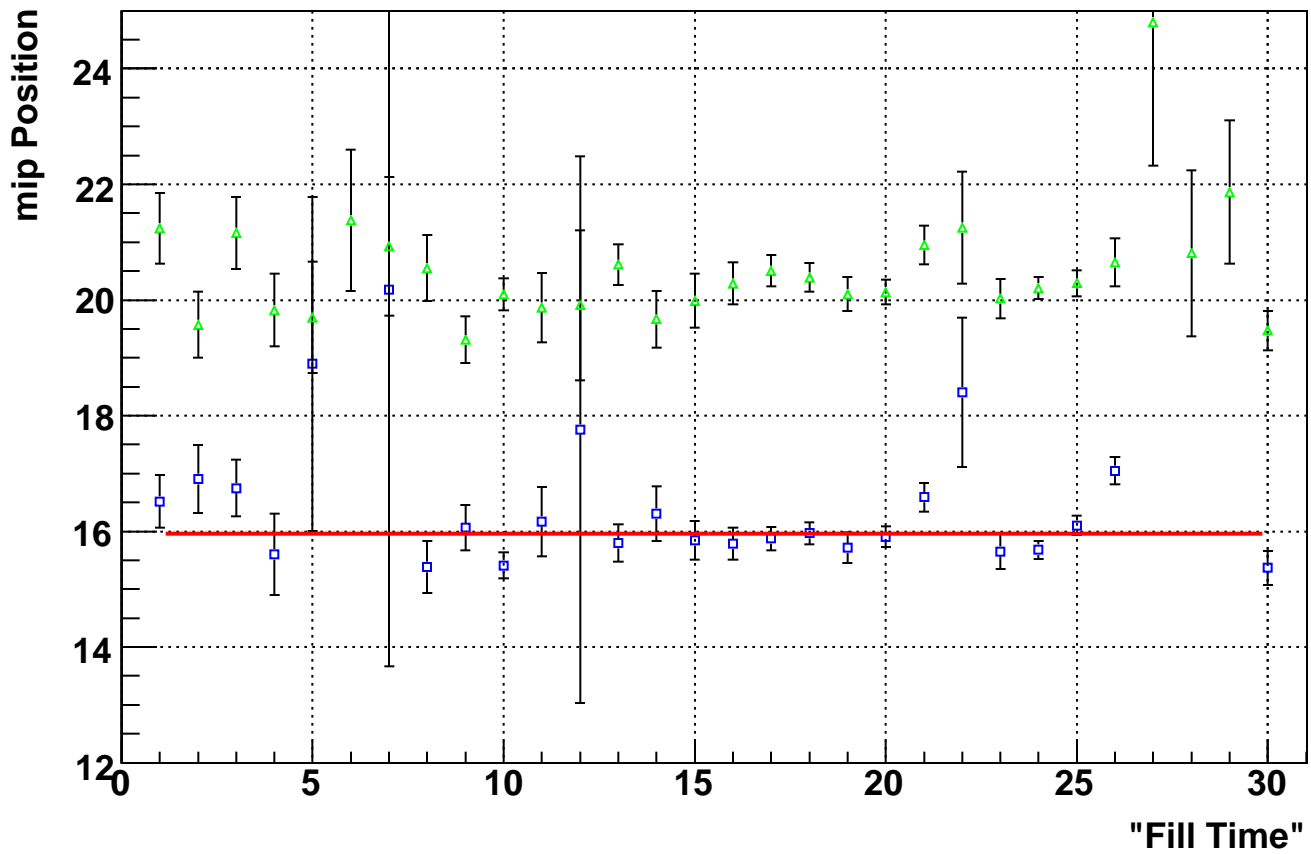
**Eta Bin 6 mip Positons Vs. Time**



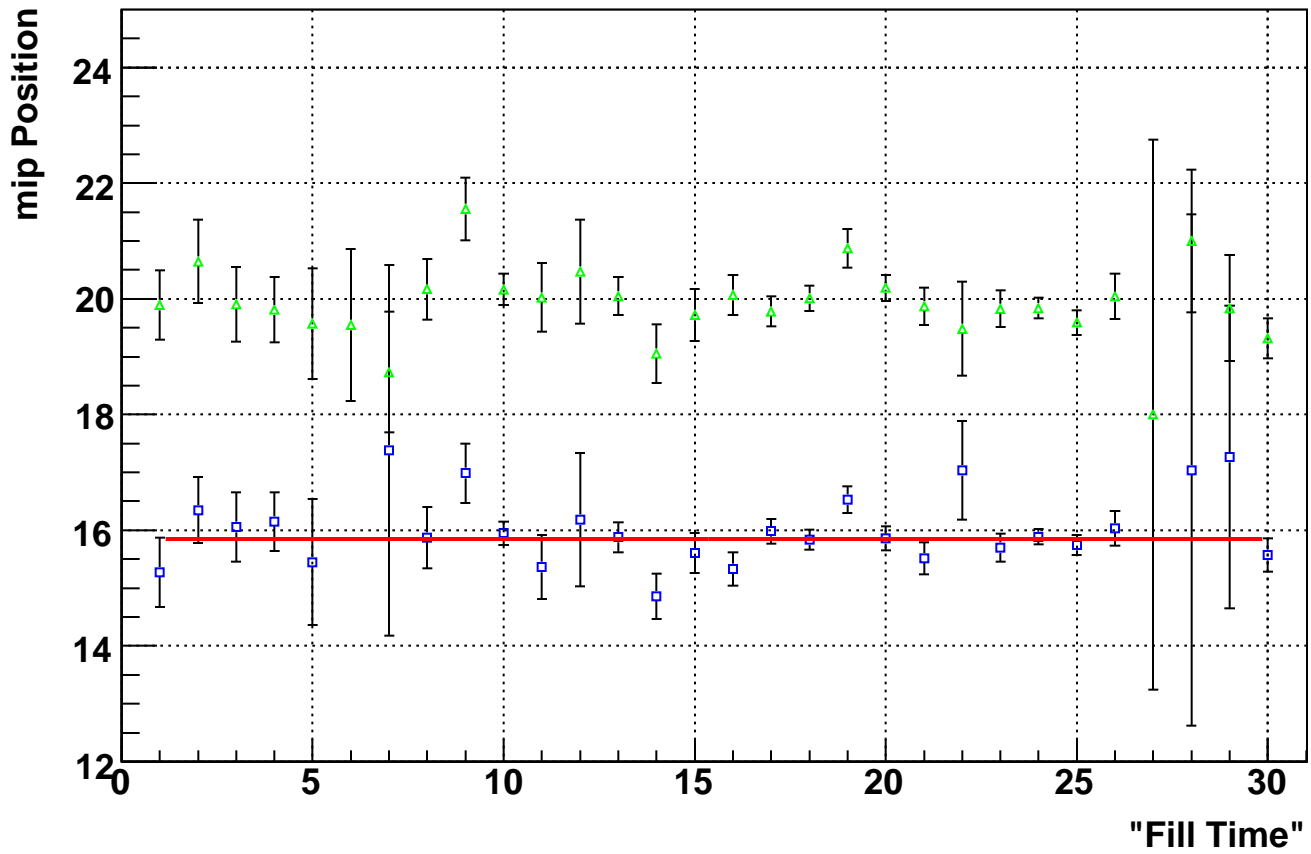
**Eta Bin 7 mip Positons Vs. Time**



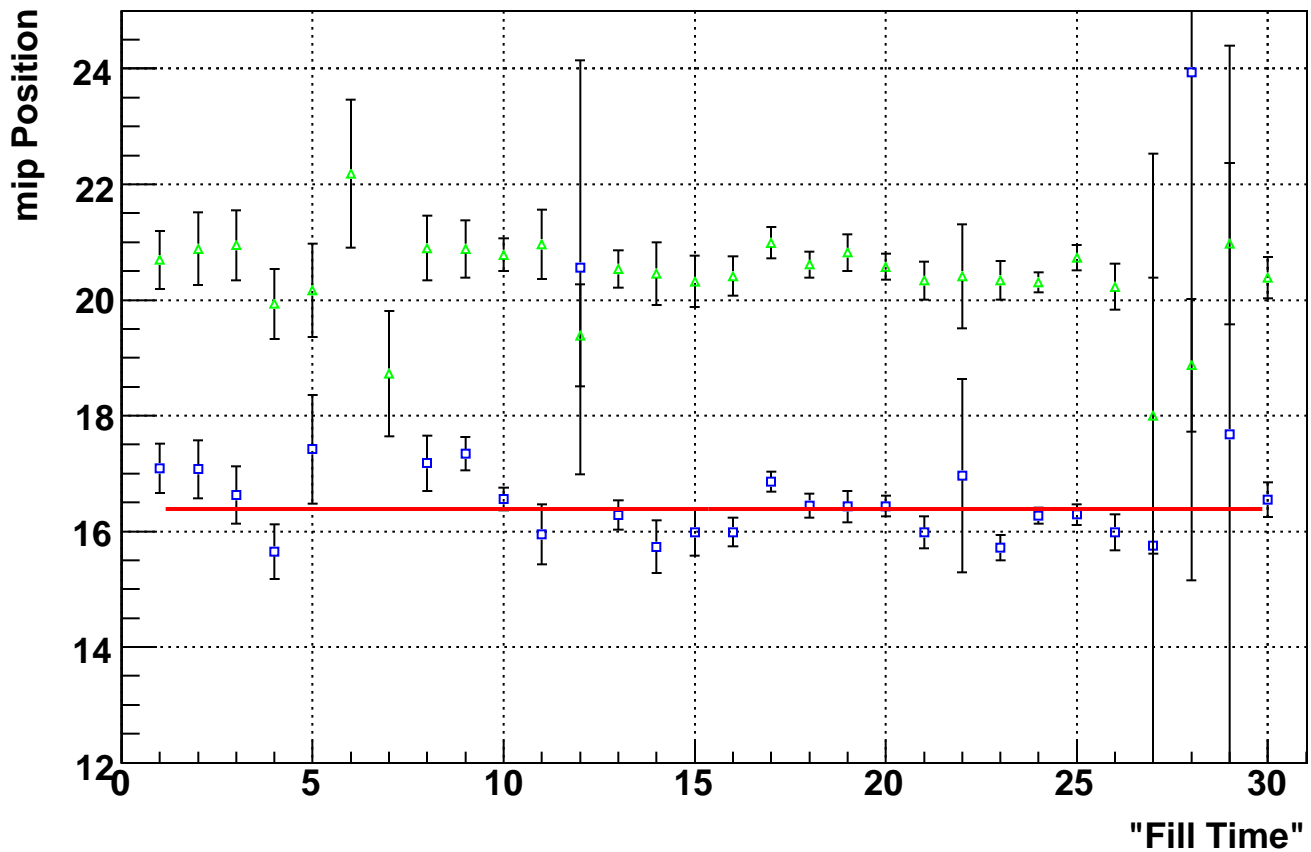
**Eta Bin 8 mip Positons Vs. Time**



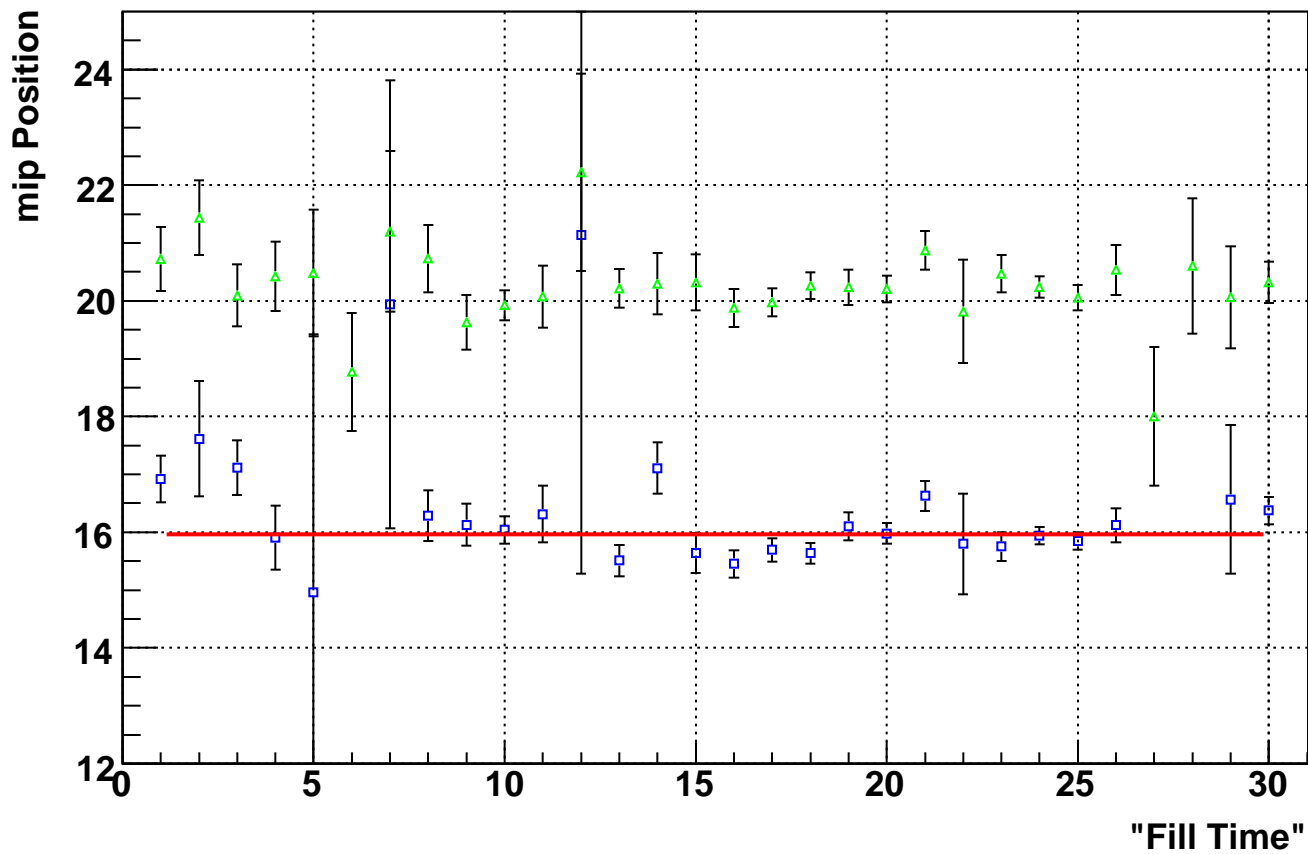
**Eta Bin 9 mip Positons Vs. Time**



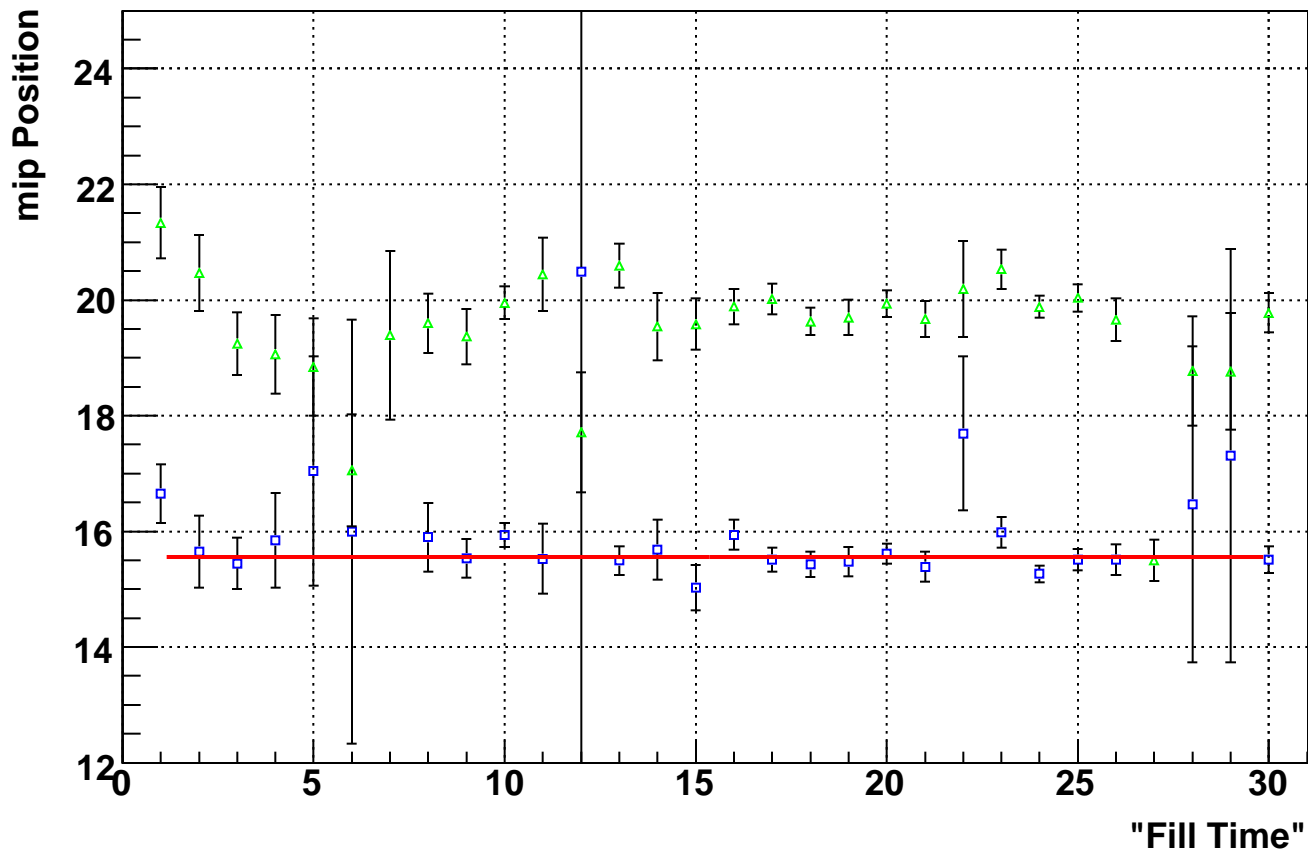
**Eta Bin 10 mip Positons Vs. Time**



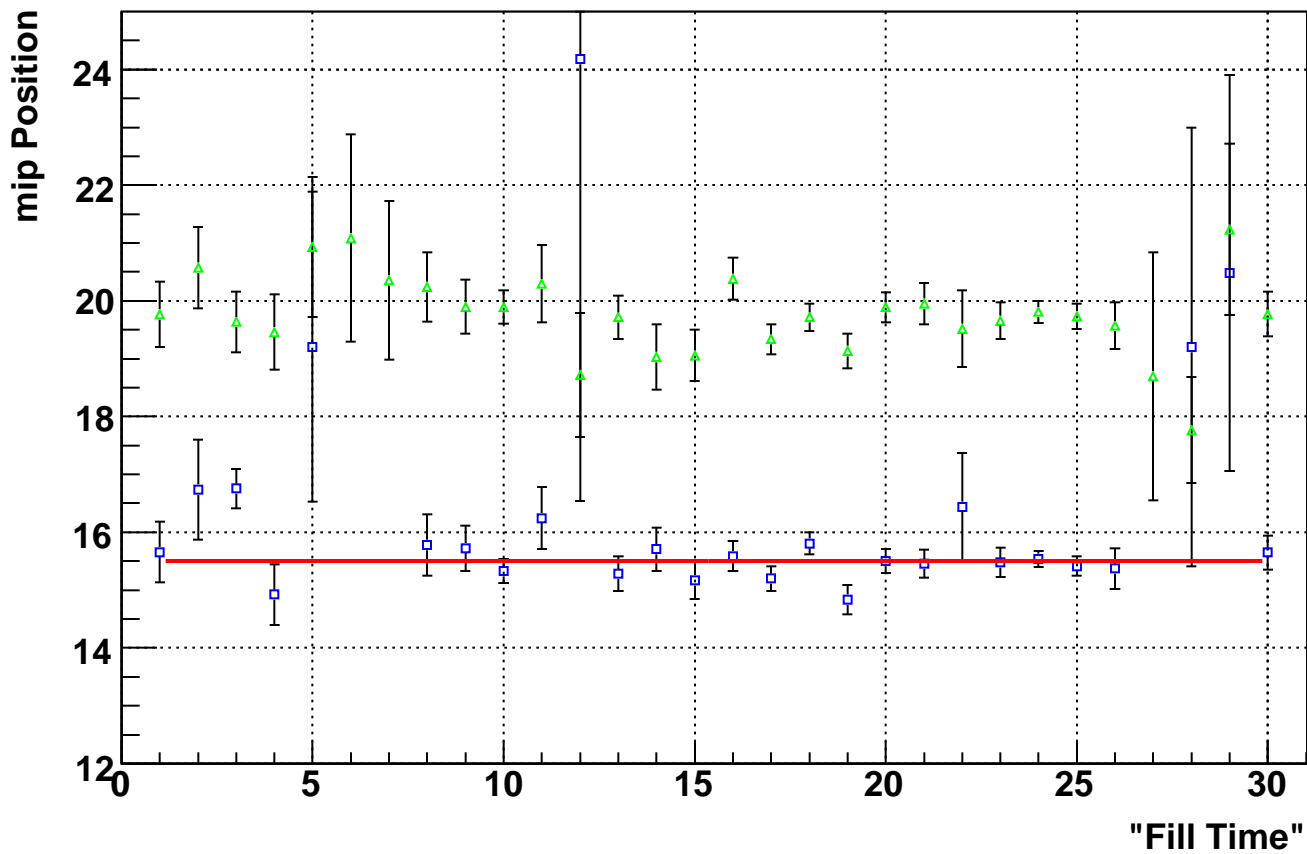
**Eta Bin 11 mip Positons Vs. Time**



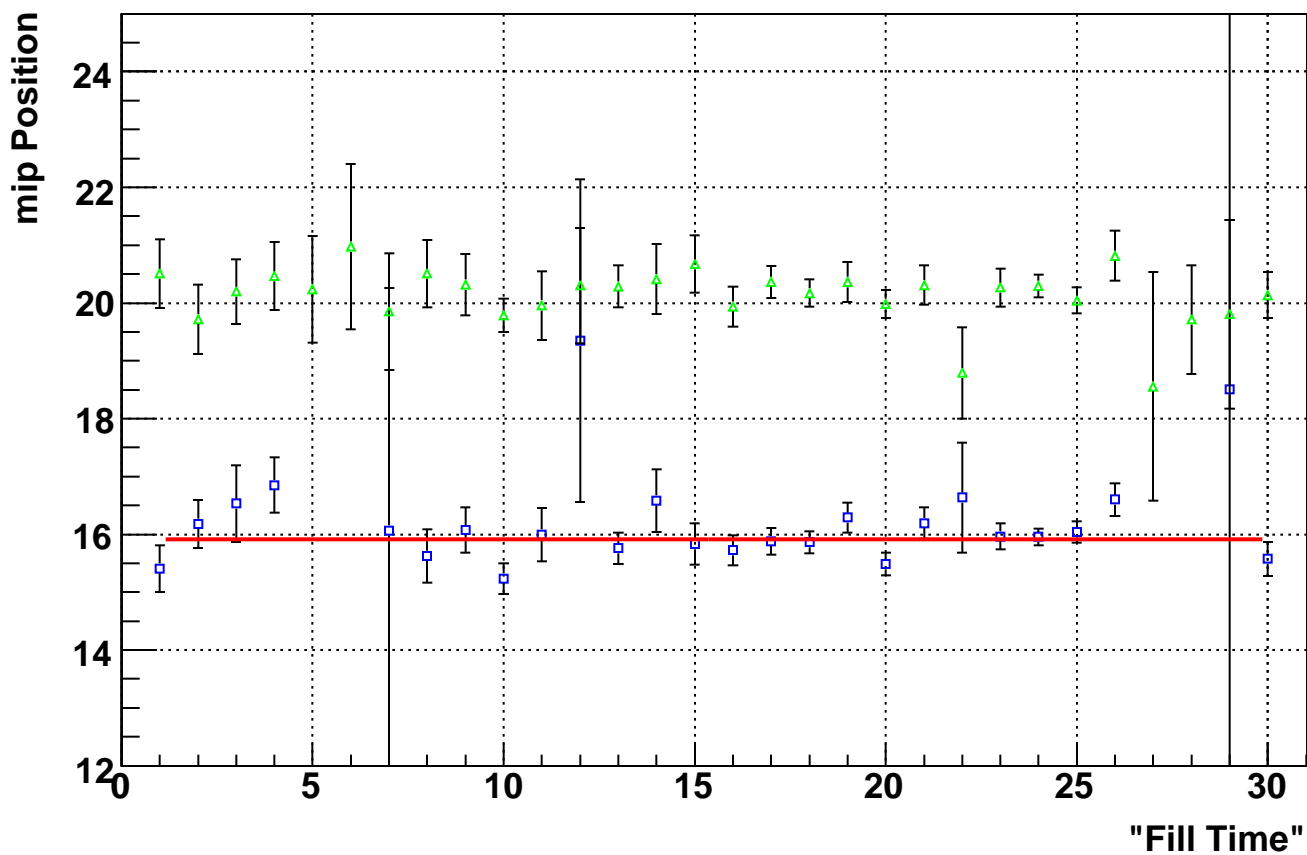
**Eta Bin 12 mip Positons Vs. Time**



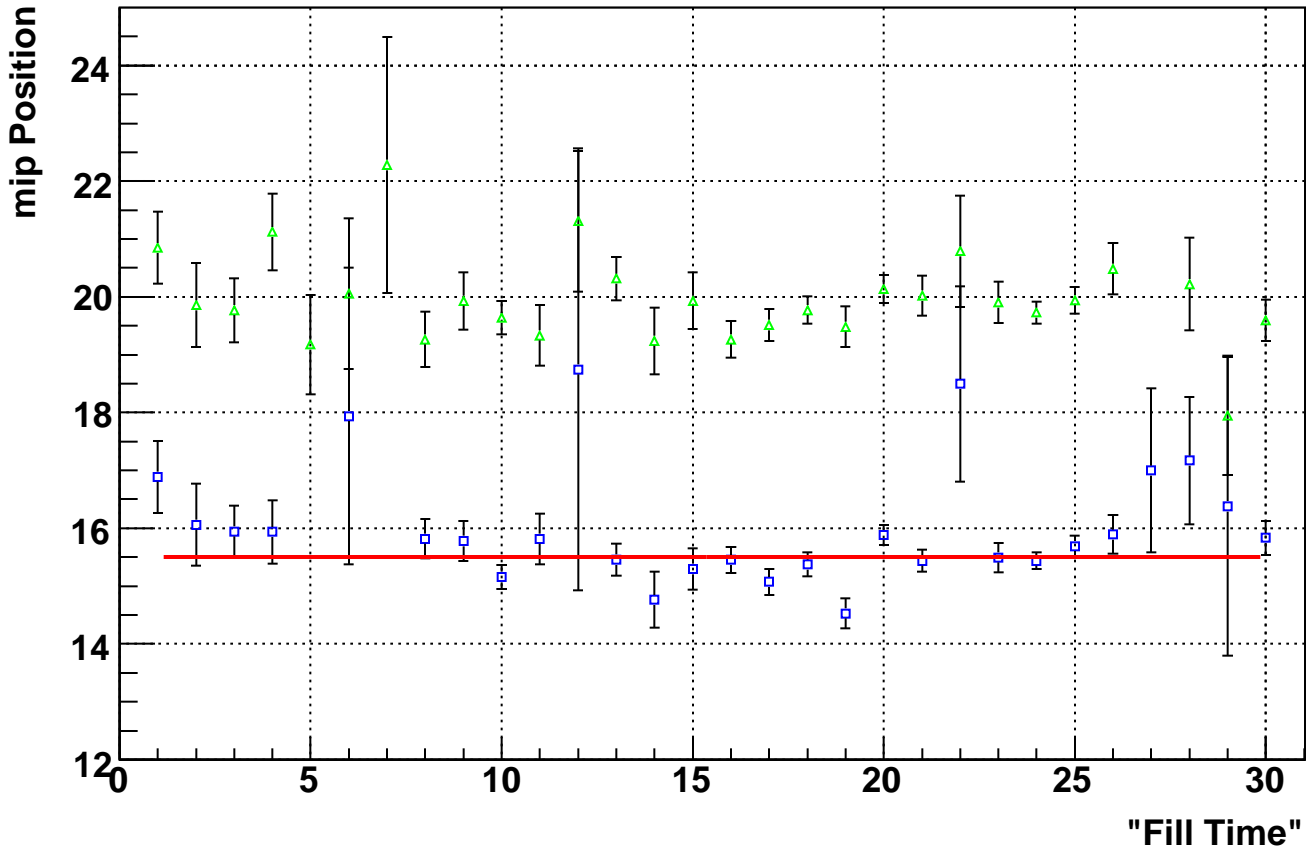
**Eta Bin 13 mip Positons Vs. Time**



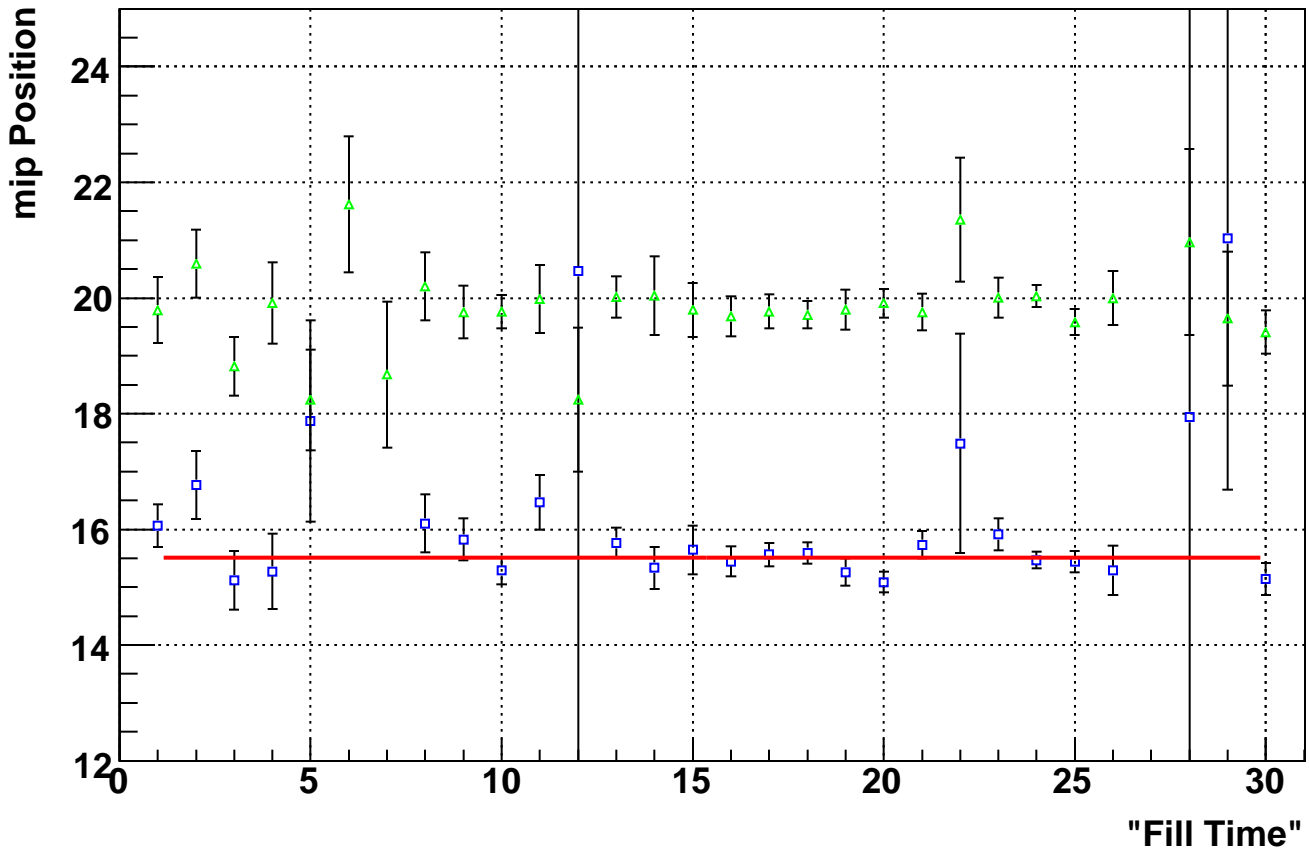
**Eta Bin 14 mip Positons Vs. Time**



**Eta Bin 15 mip Positons Vs. Time**

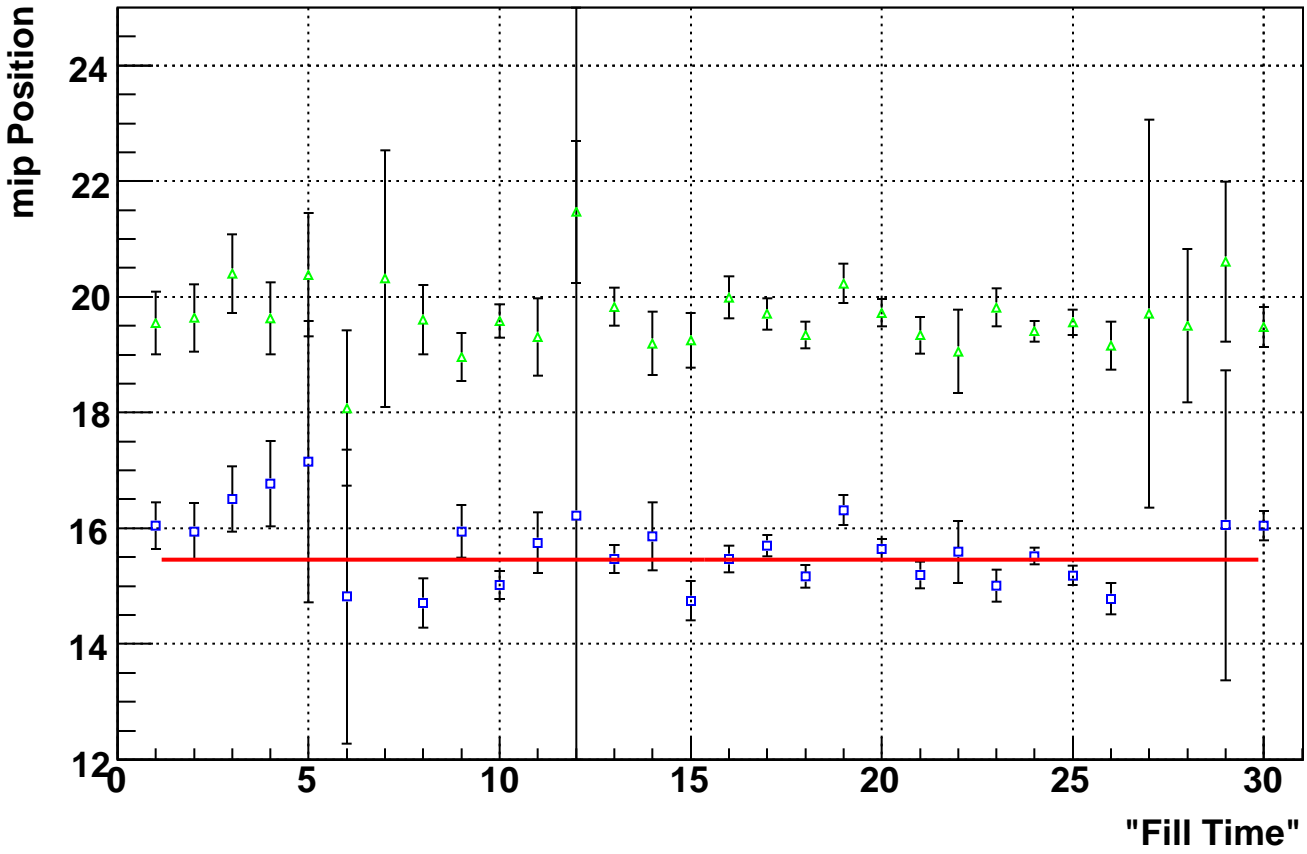


**Eta Bin 16 mip Positons Vs. Time**

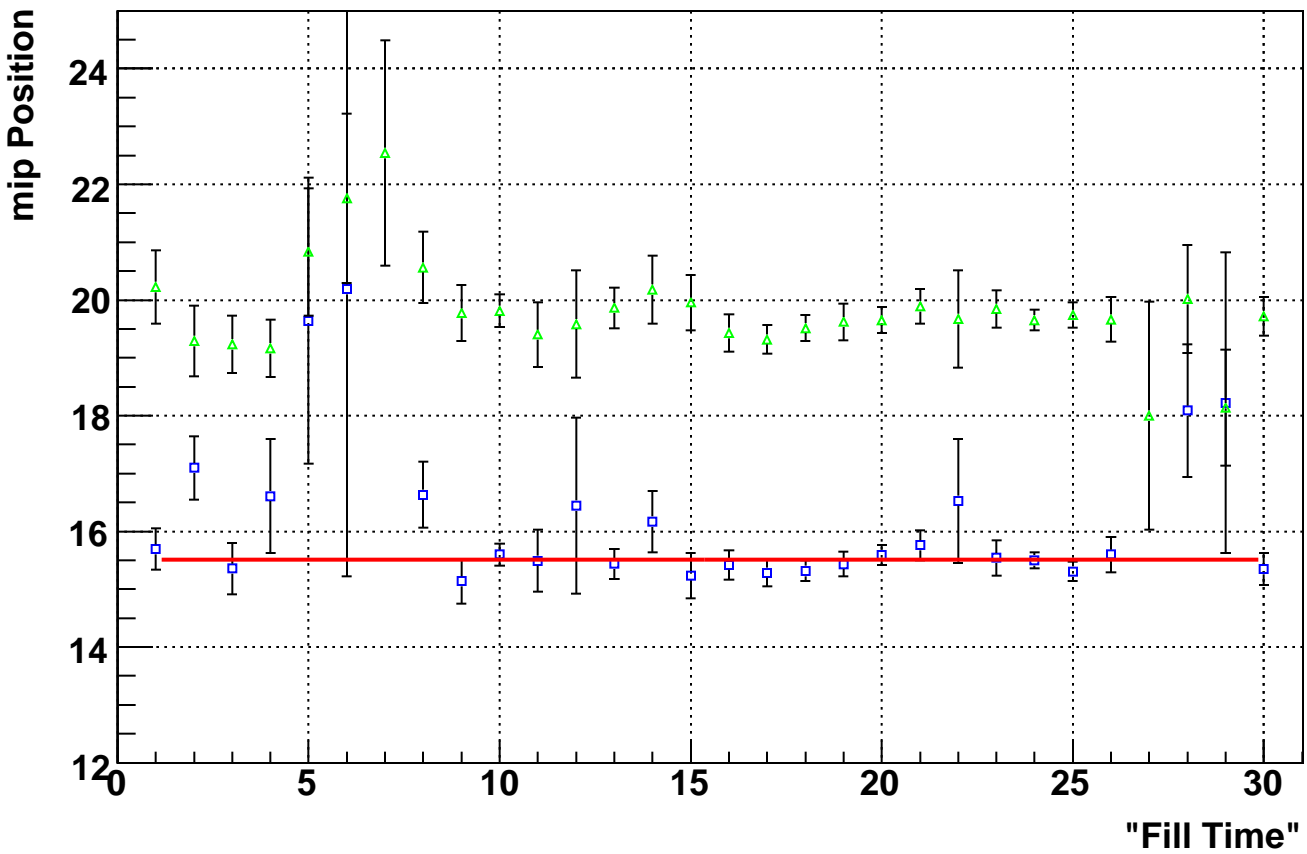




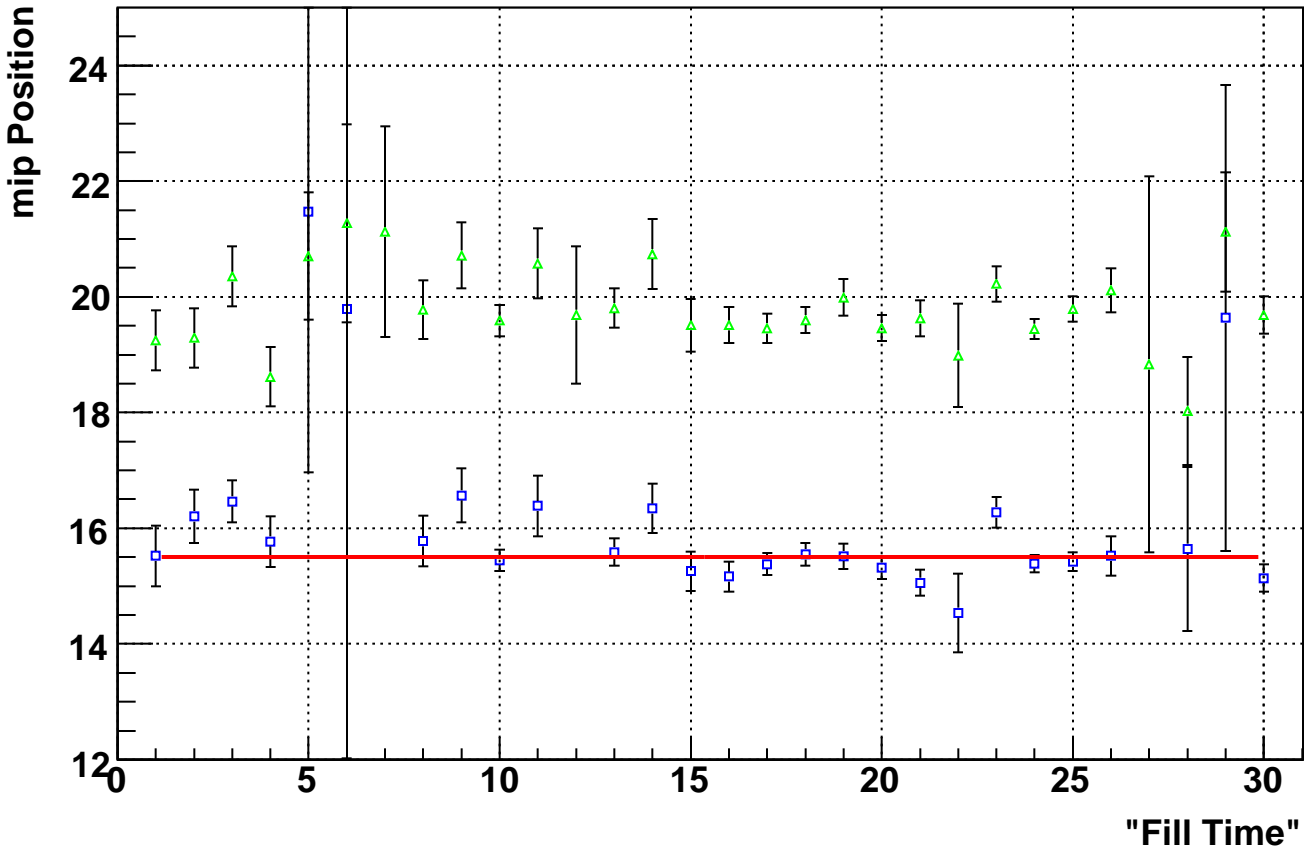
**Eta Bin 17 mip Positons Vs. Time**



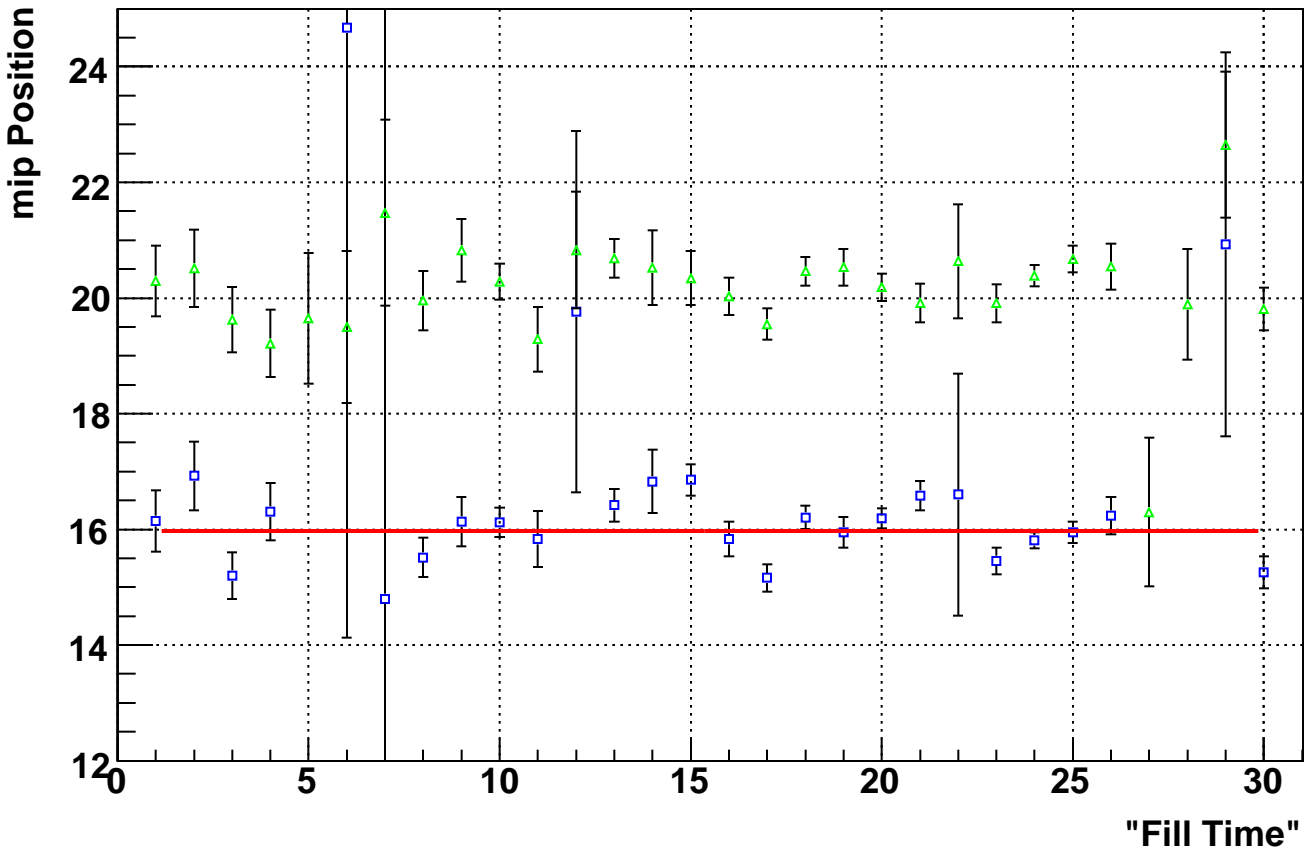
**Eta Bin 18 mip Positons Vs. Time**



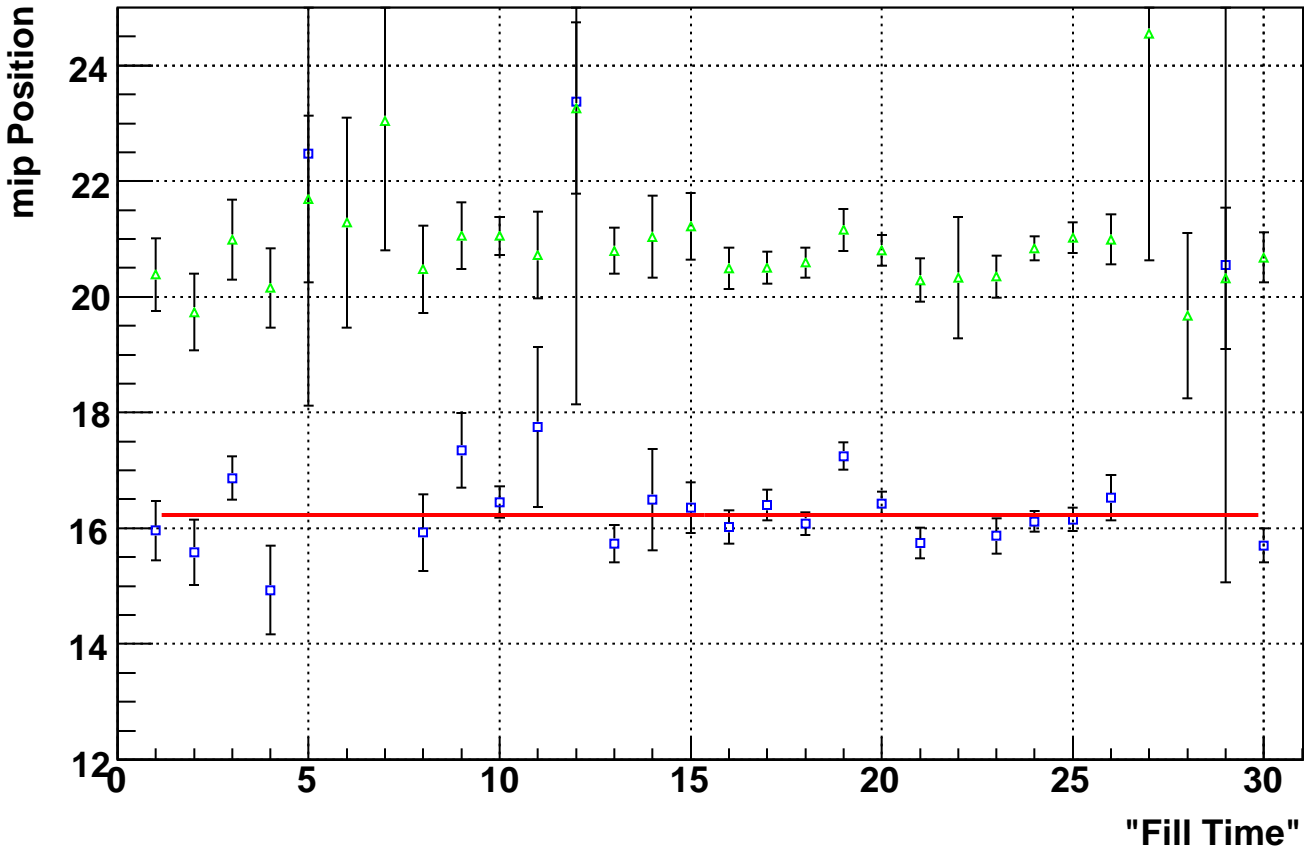
**Eta Bin 19 mip Positons Vs. Time**



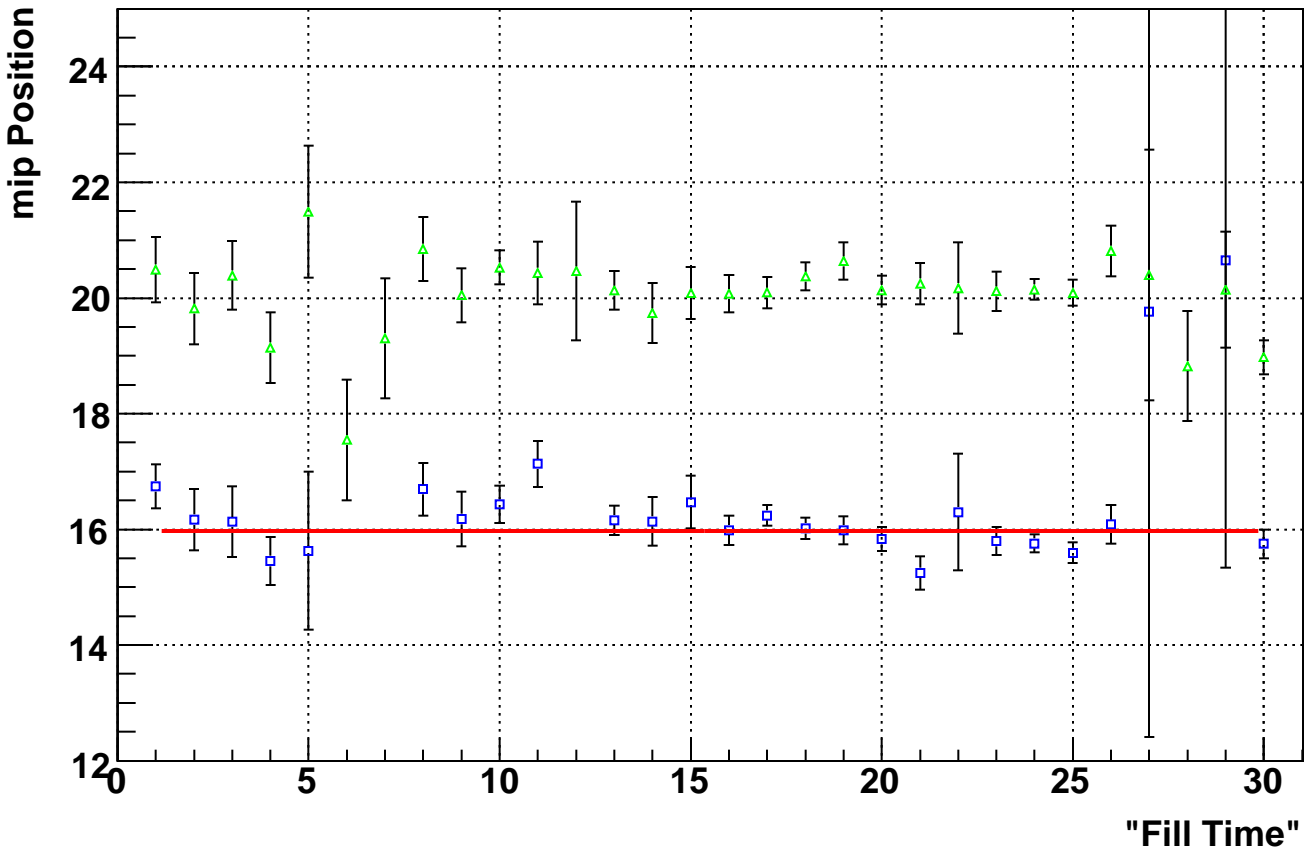
**Eta Bin 20 mip Positons Vs. Time**



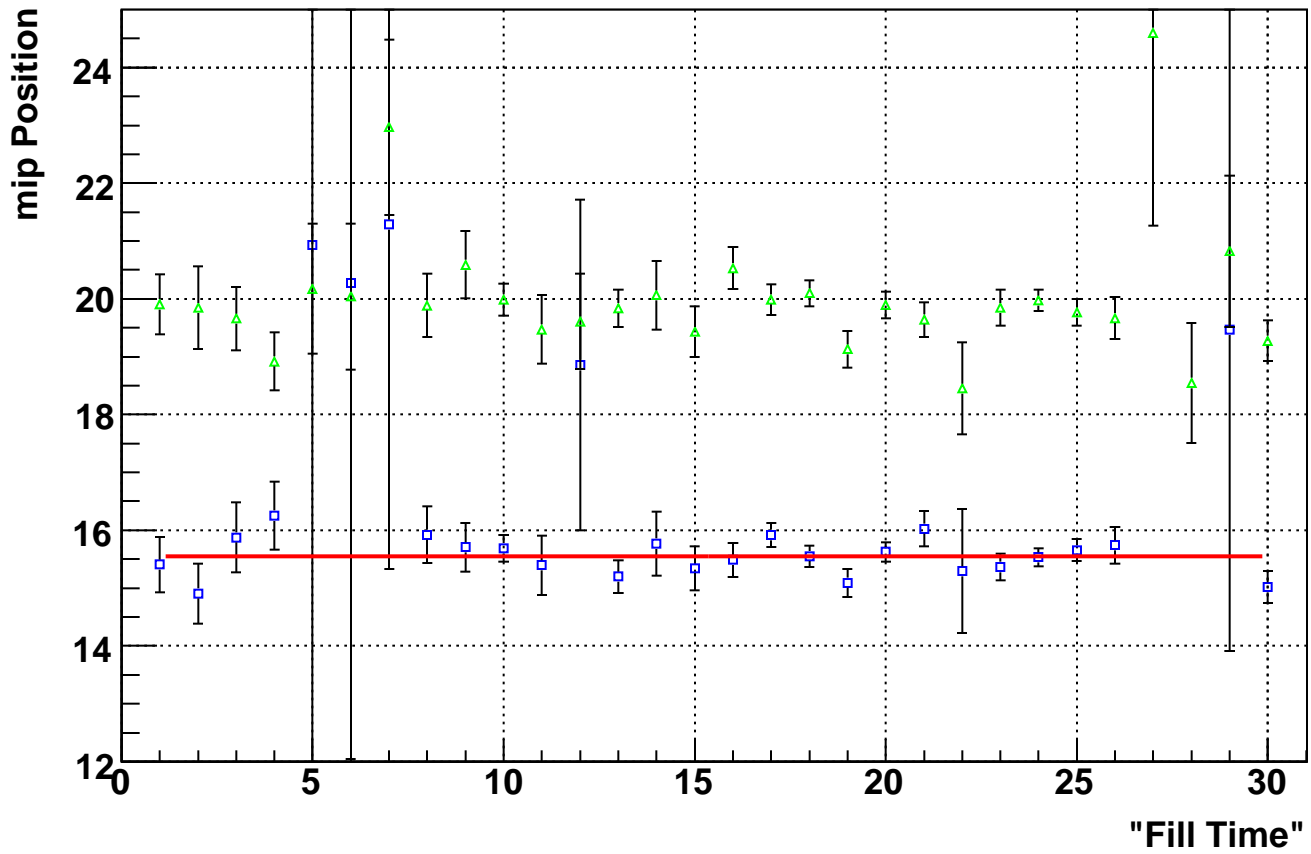
**Eta Bin 21 mip Positons Vs. Time**



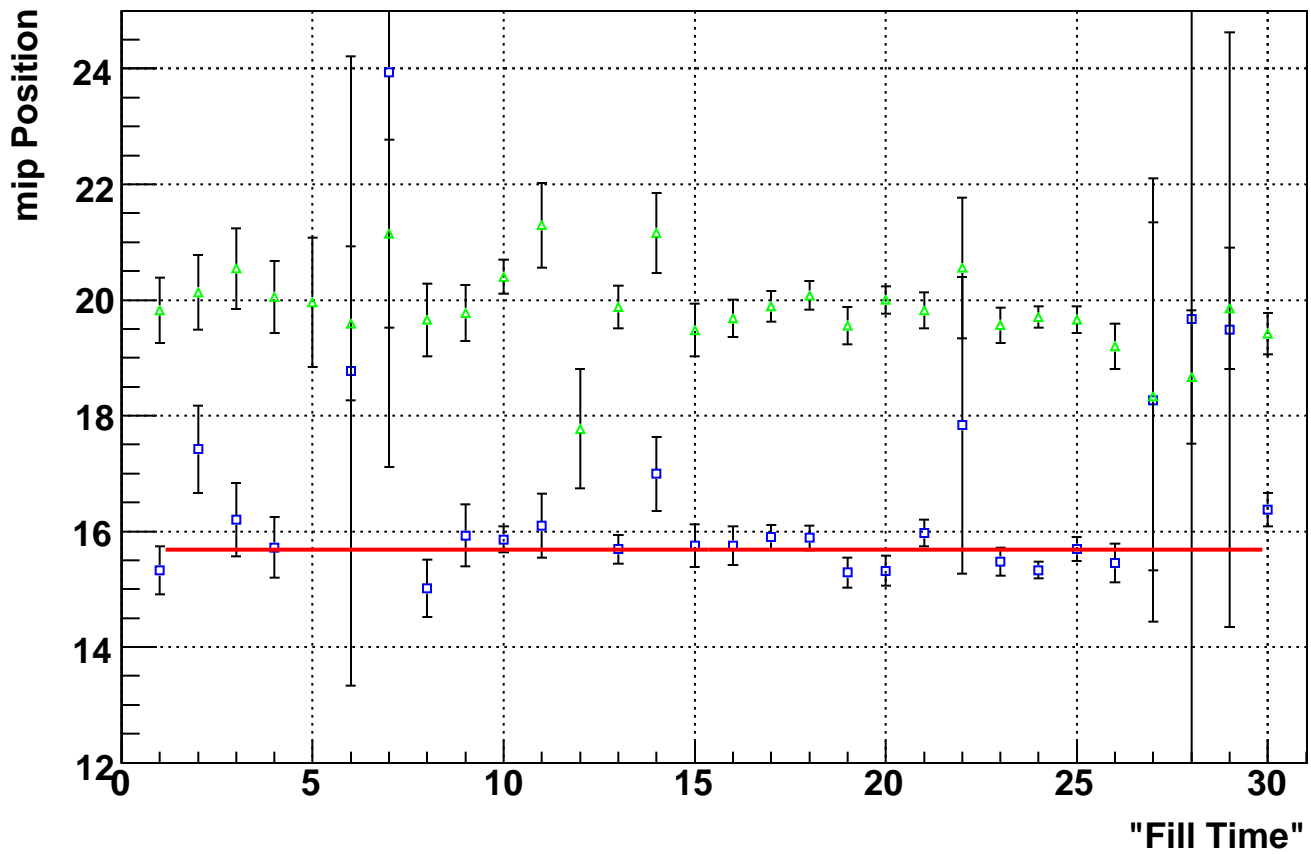
**Eta Bin 22 mip Positons Vs. Time**



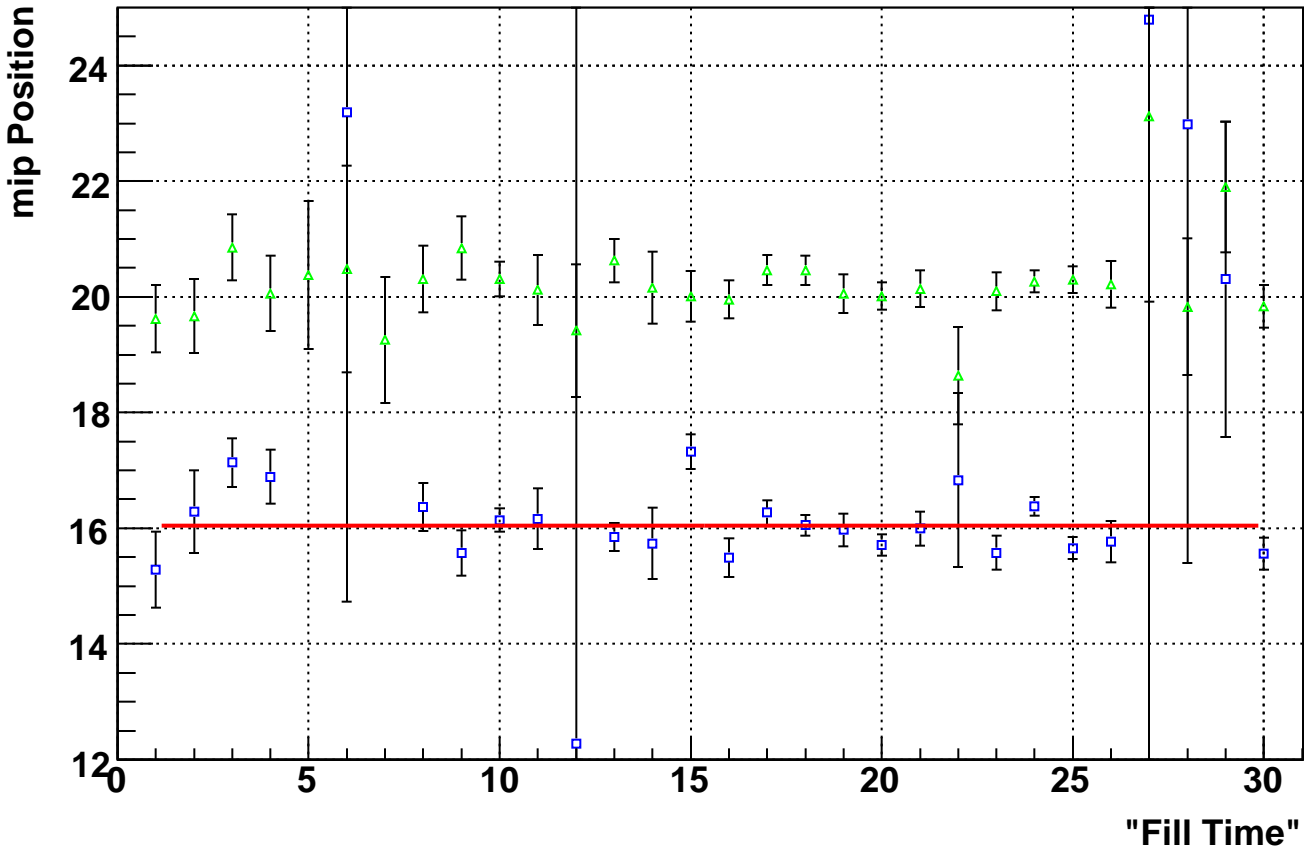
**Eta Bin 23 mip Positons Vs. Time**



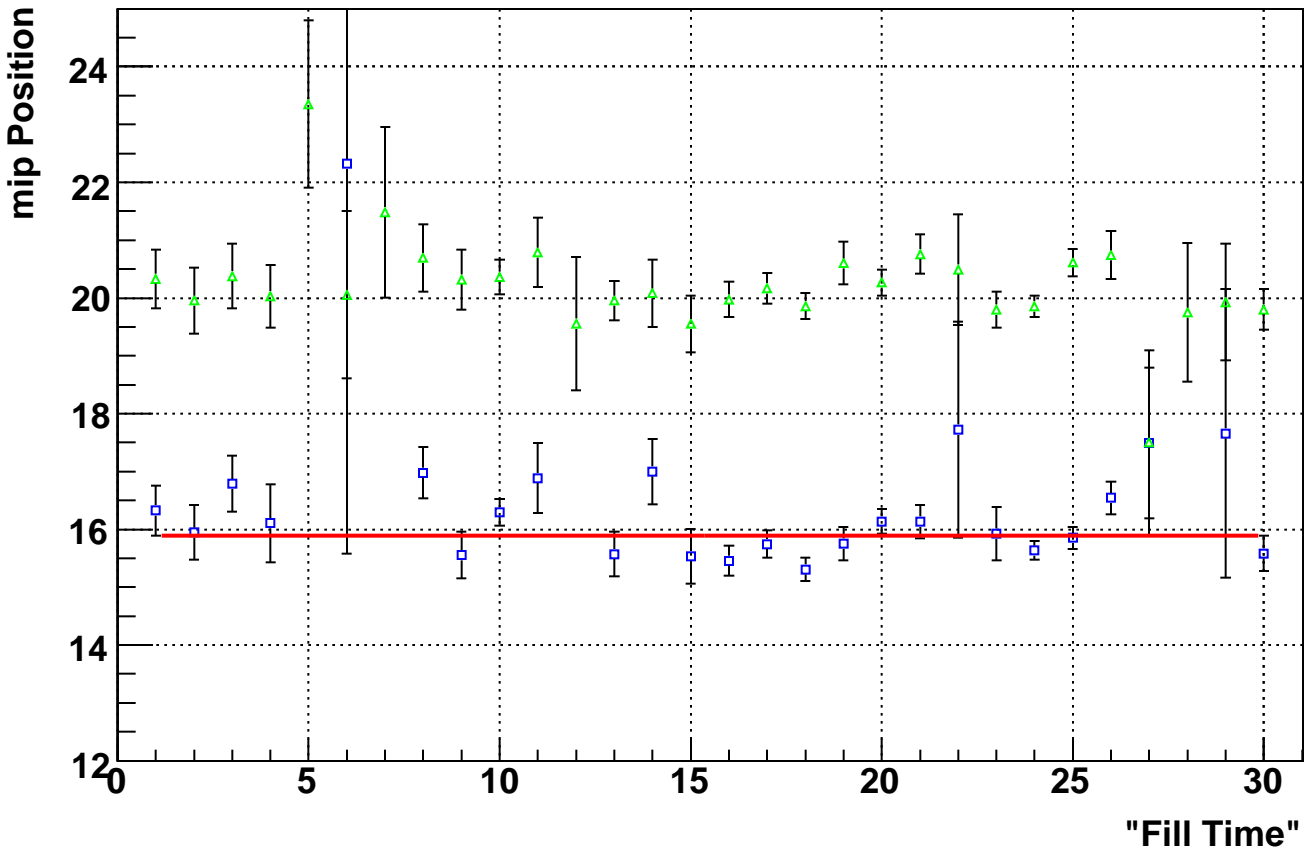
**Eta Bin 24 mip Positons Vs. Time**



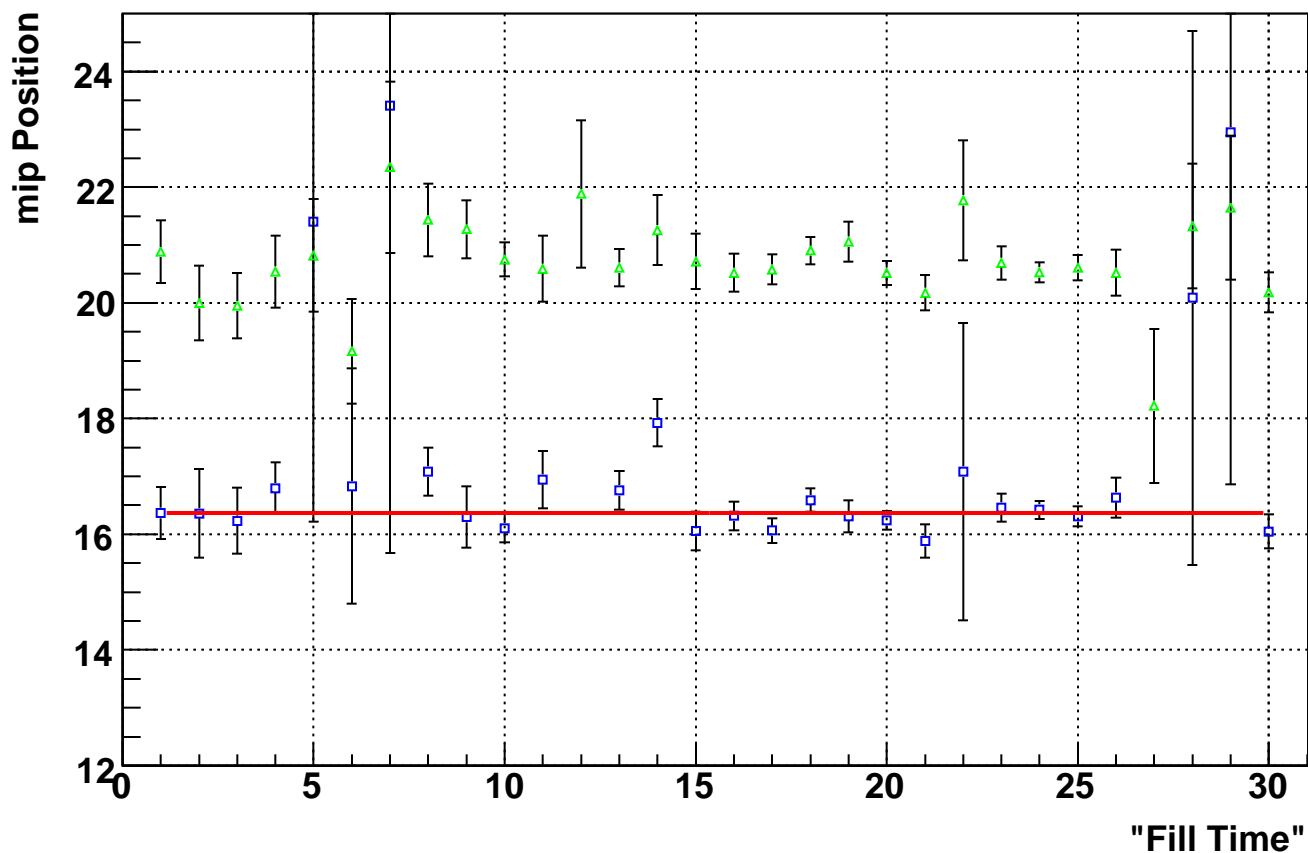
**Eta Bin 25 mip Positons Vs. Time**



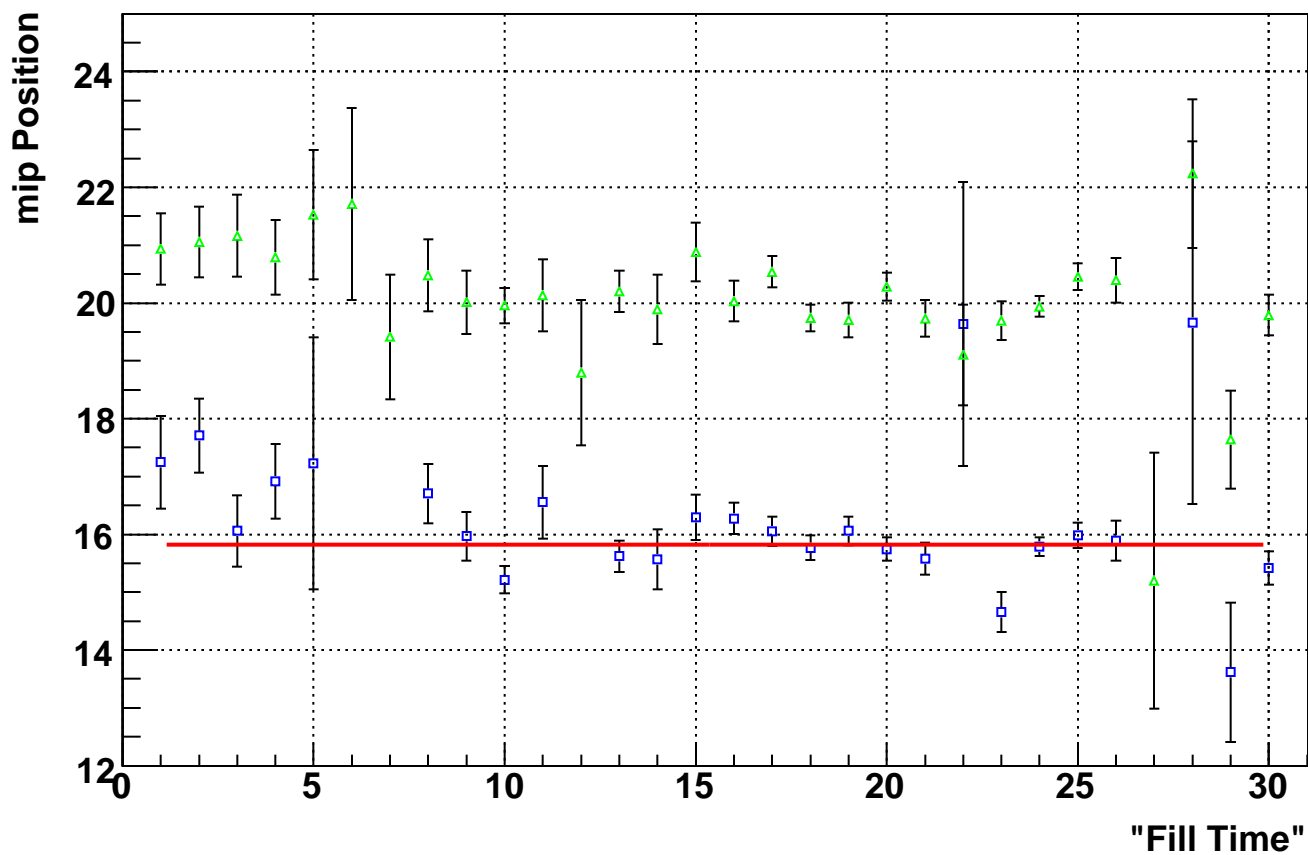
**Eta Bin 26 mip Positons Vs. Time**



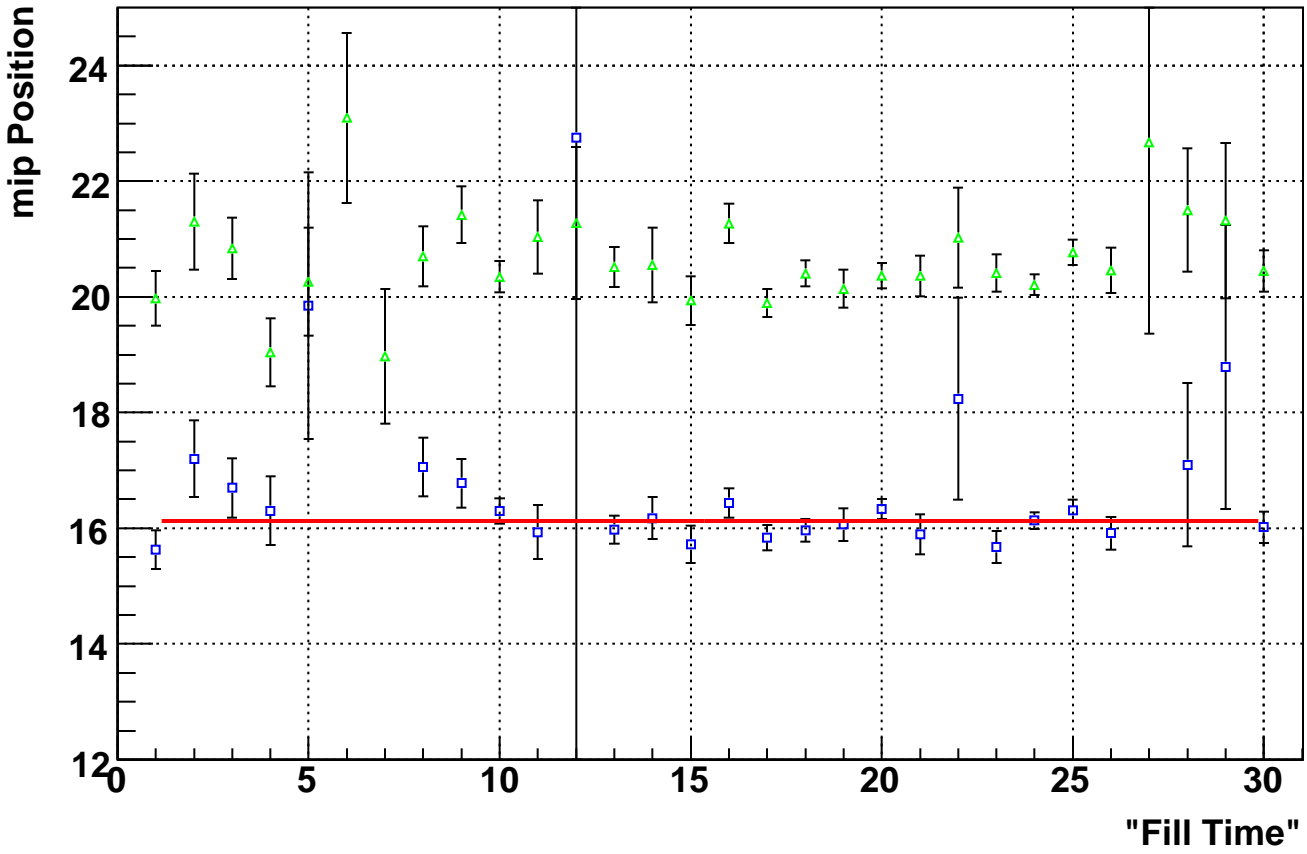
**Eta Bin 27 mip Positons Vs. Time**



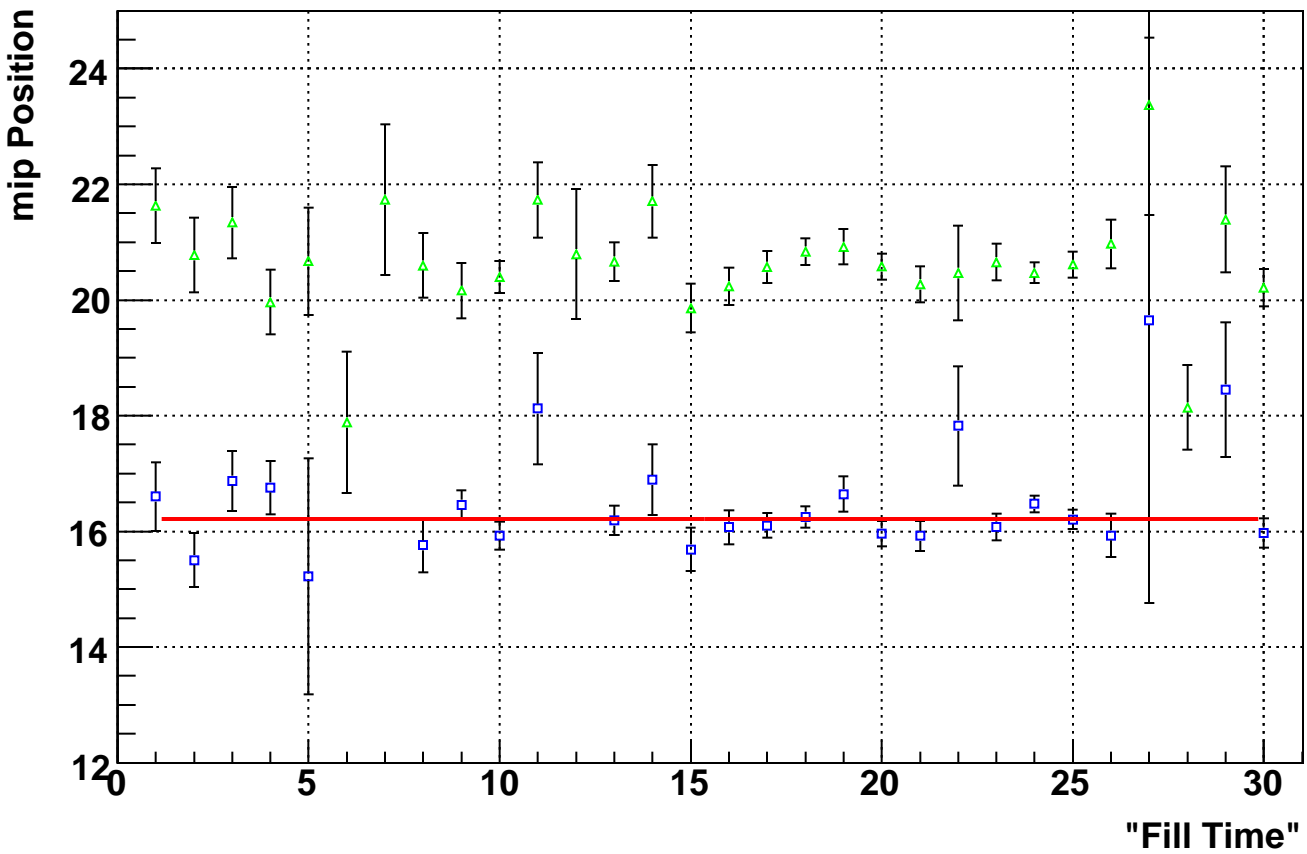
**Eta Bin 28 mip Positons Vs. Time**



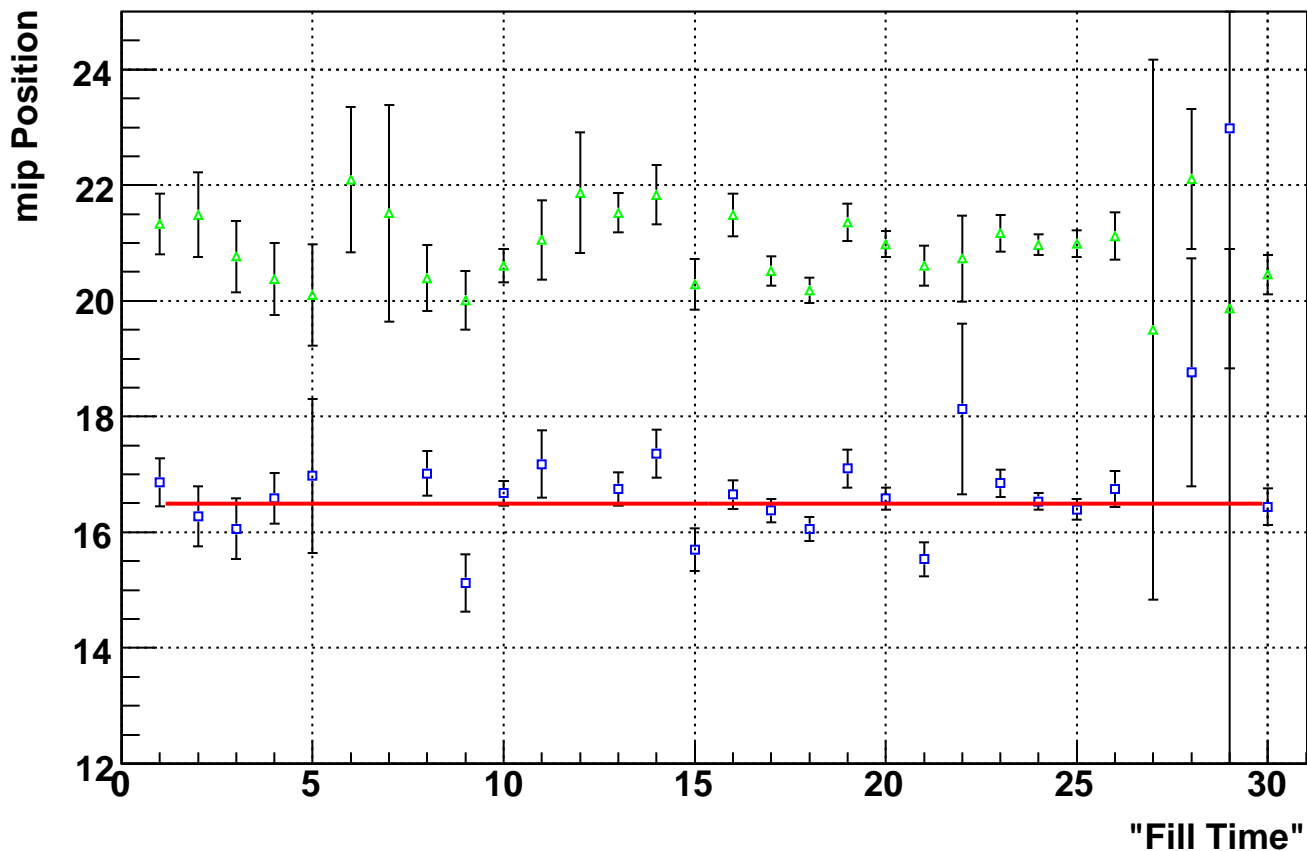
**Eta Bin 29 mip Positons Vs. Time**



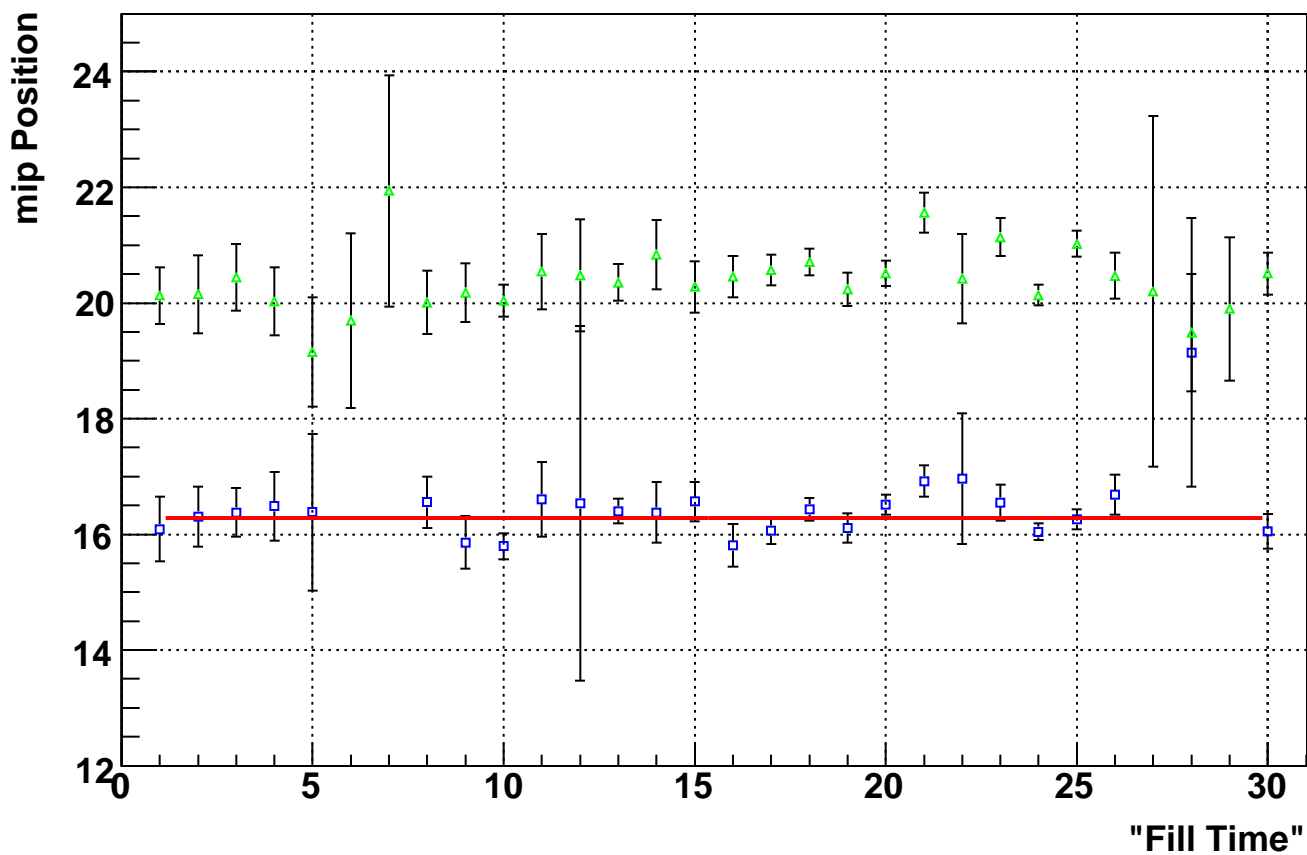
**Eta Bin 30 mip Positons Vs. Time**



**Eta Bin 31 mip Positons Vs. Time**

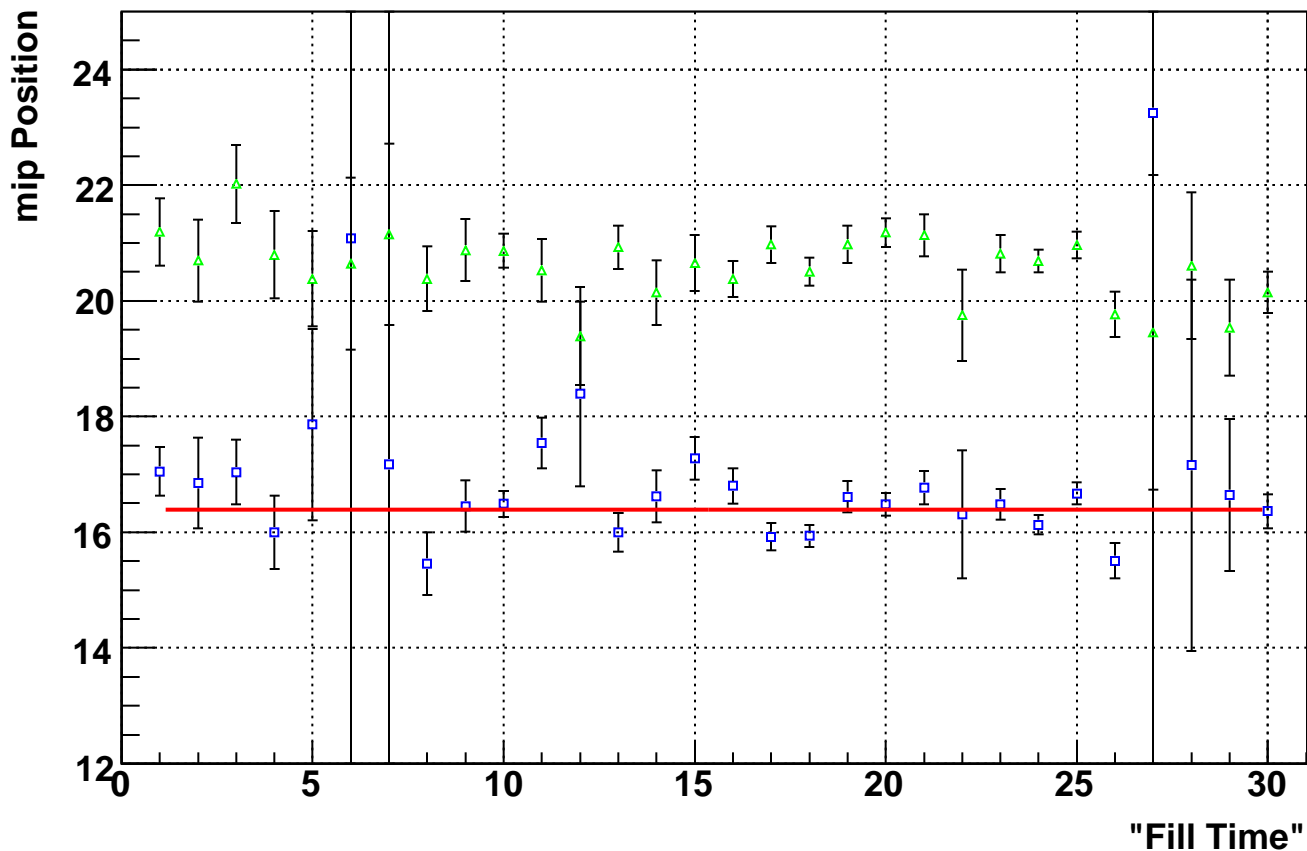


**Eta Bin 32 mip Positons Vs. Time**

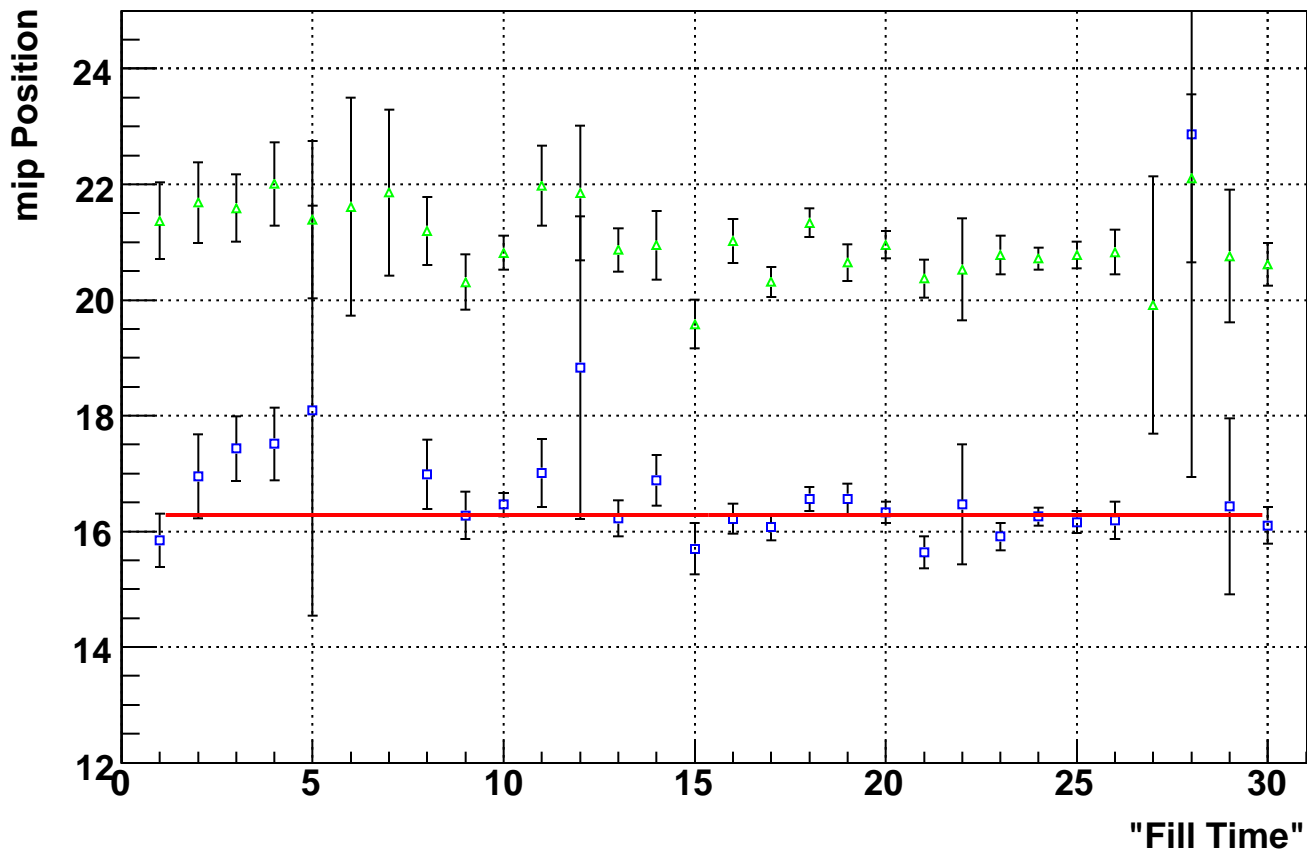




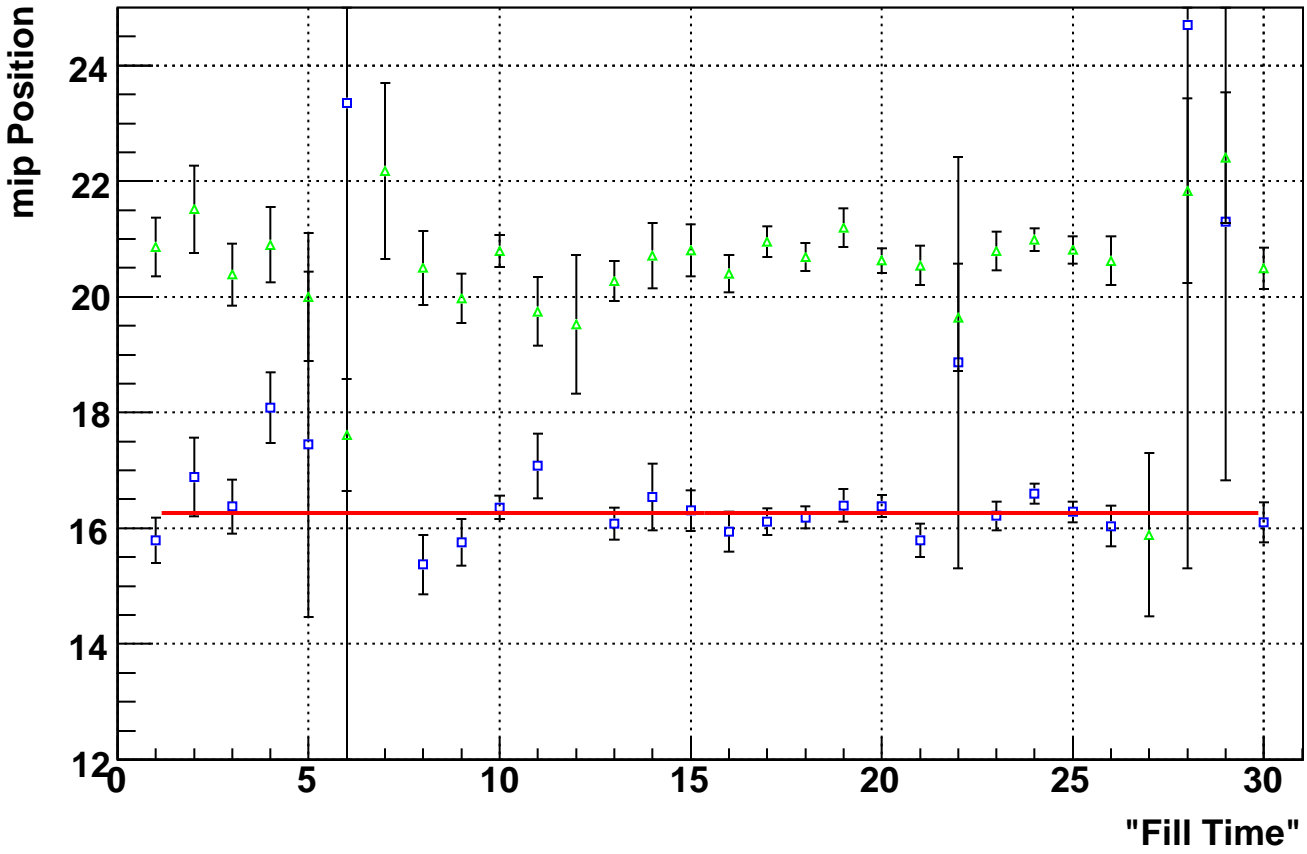
**Eta Bin 33 mip Positons Vs. Time**



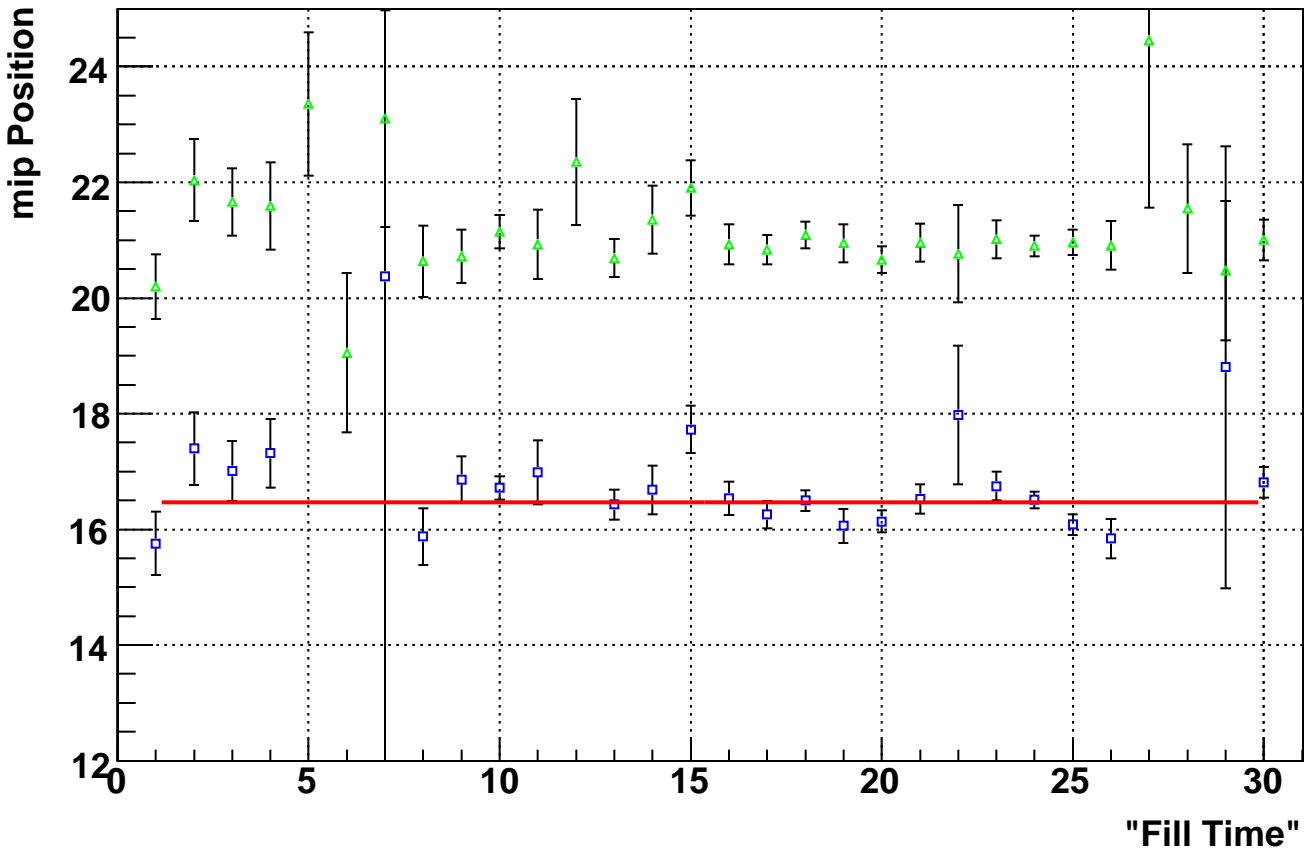
**Eta Bin 34 mip Positons Vs. Time**



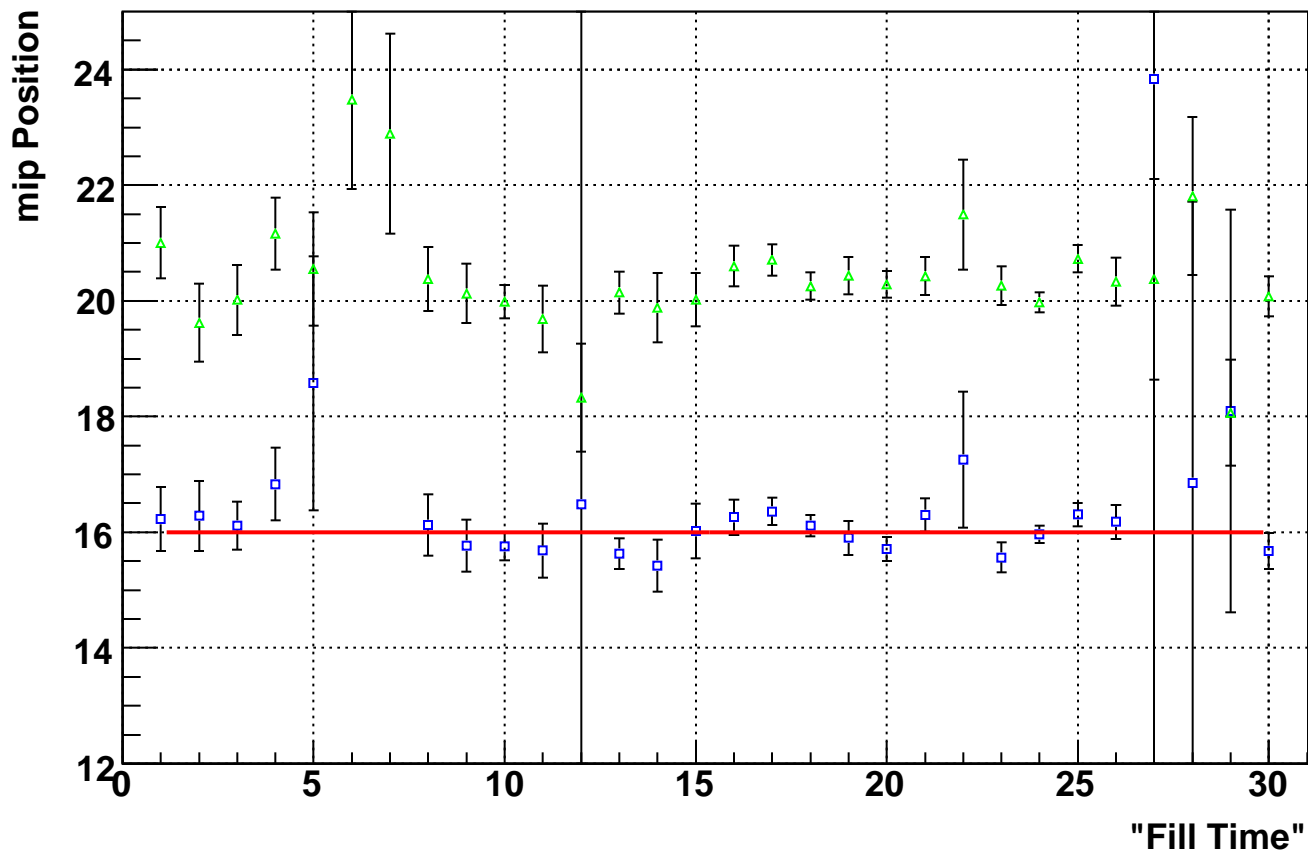
**Eta Bin 35 mip Positons Vs. Time**



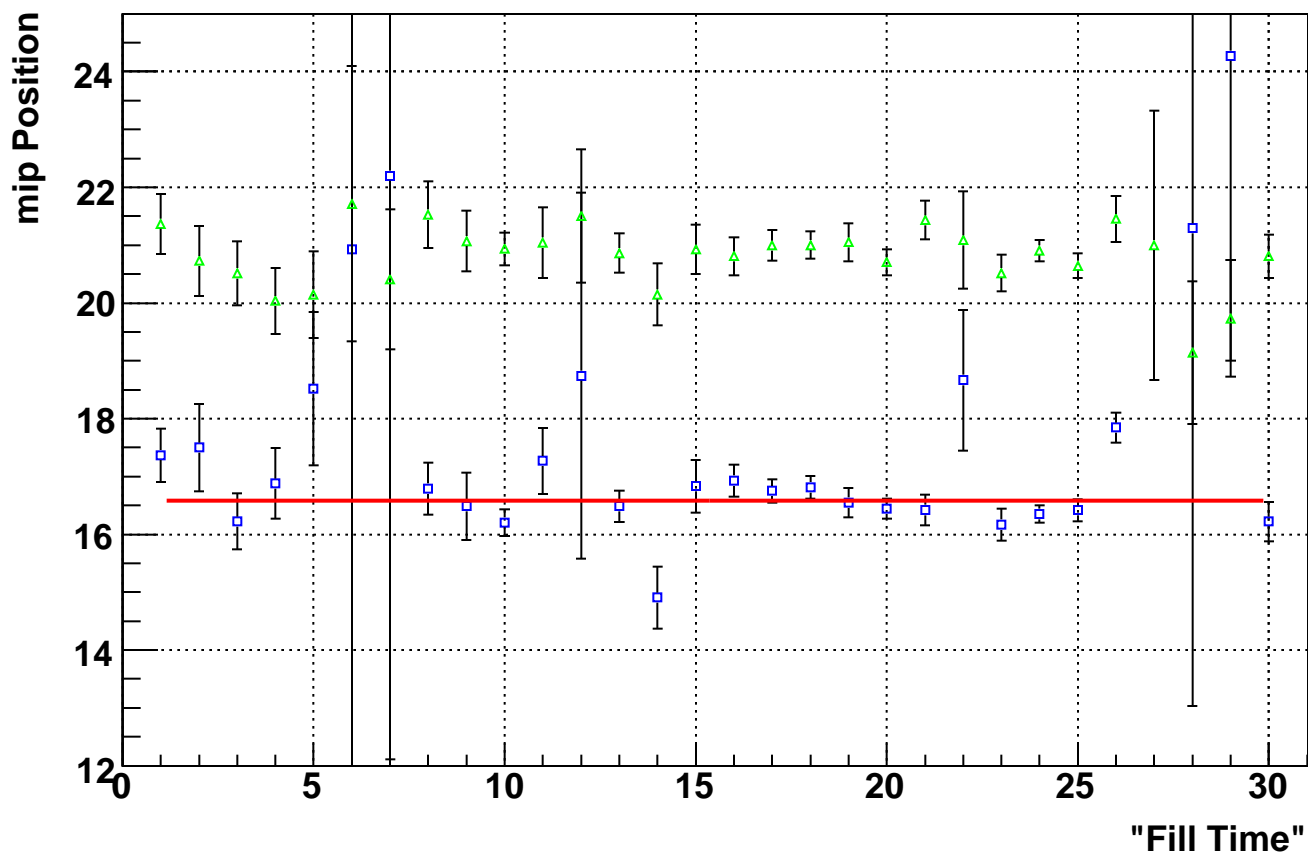
**Eta Bin 36 mip Positons Vs. Time**



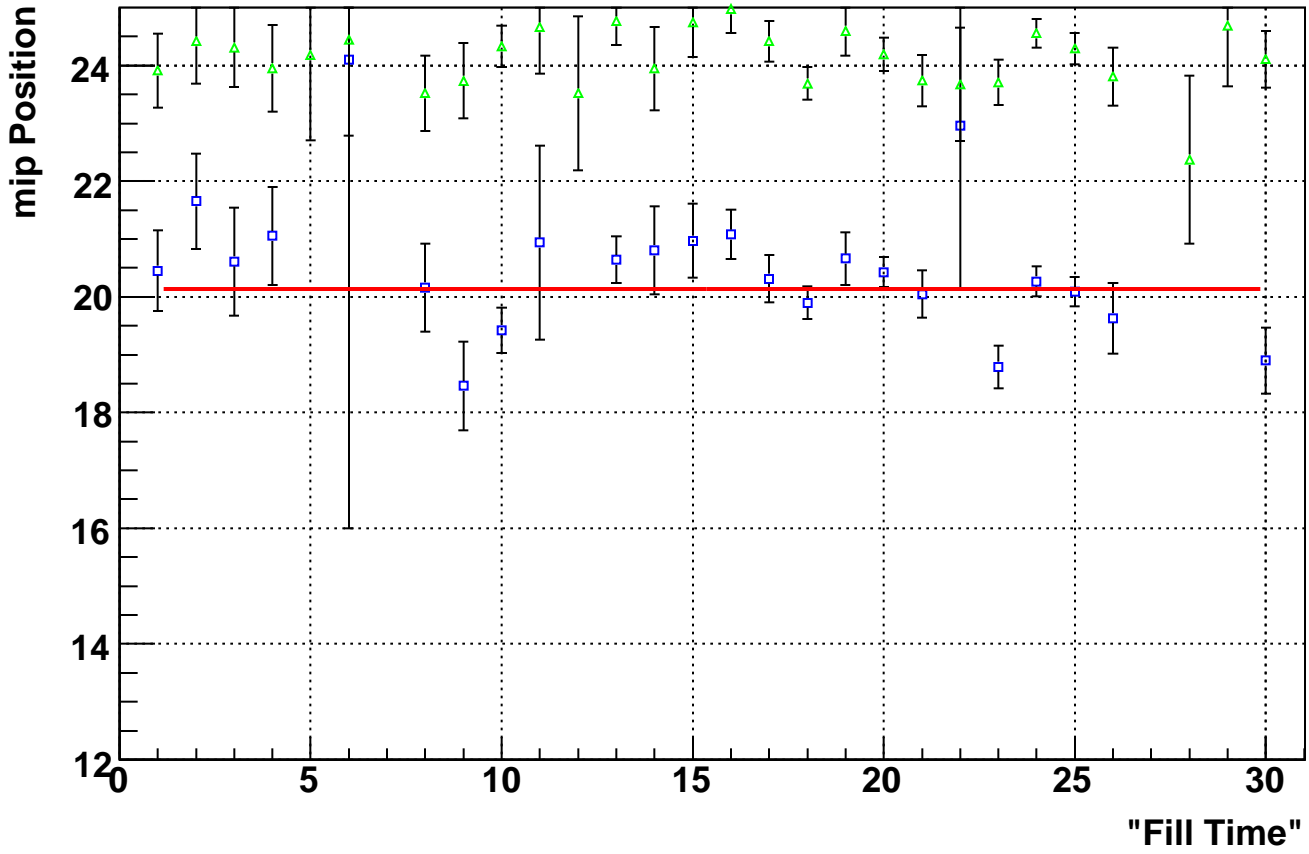
**Eta Bin 37 mip Positons Vs. Time**



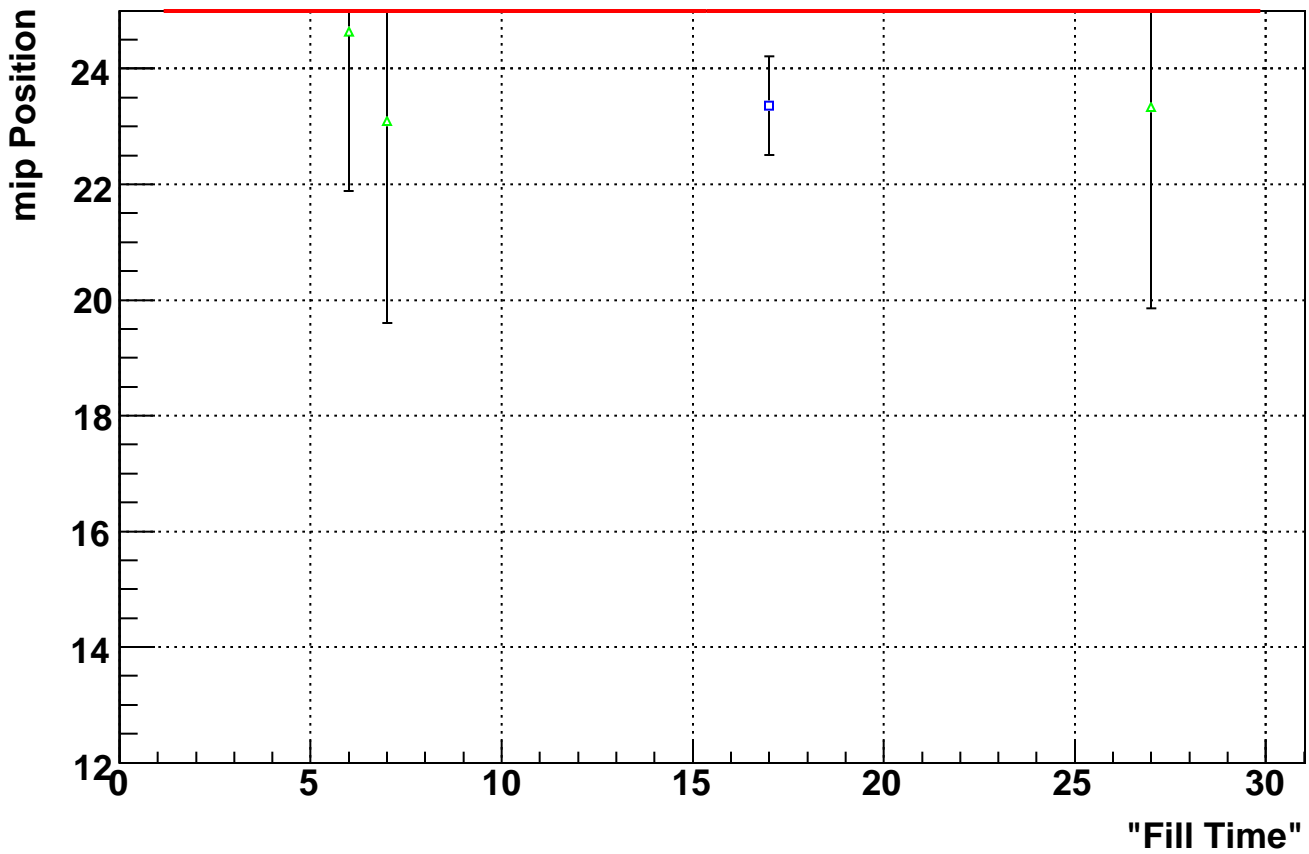
**Eta Bin 38 mip Positons Vs. Time**



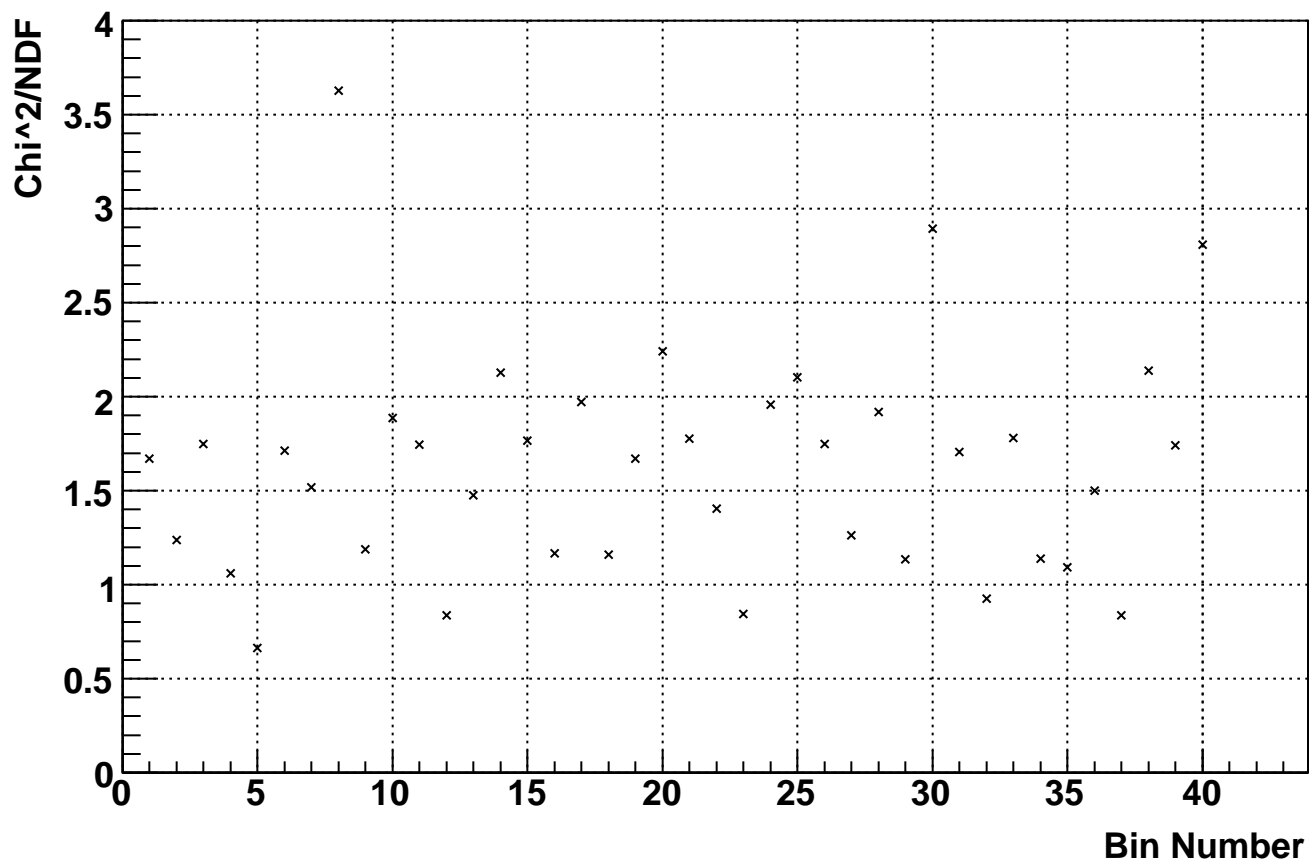
**Eta Bin 39 mip Positons Vs. Time**



**Eta Bin 40 mip Positons Vs. Time**



# Chi Squared vs. Bin Number



Eta Bin 1 mip Positions Vs. Time (rebinned b

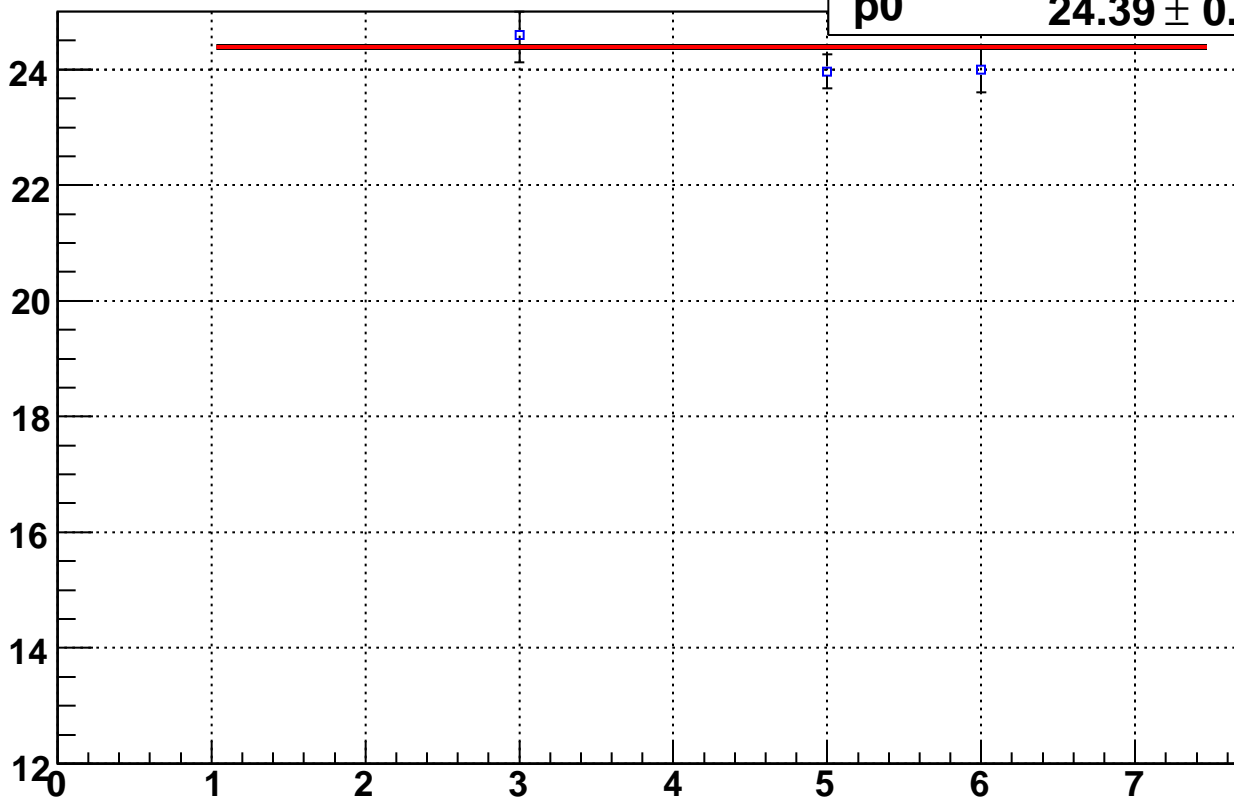
$\chi^2 / \text{ndf}$

11.46 / 6

p0

$24.39 \pm 0.1823$

mip Position



"Fill Time"

Eta Bin 2 mip Positions Vs. Time (rebinned b

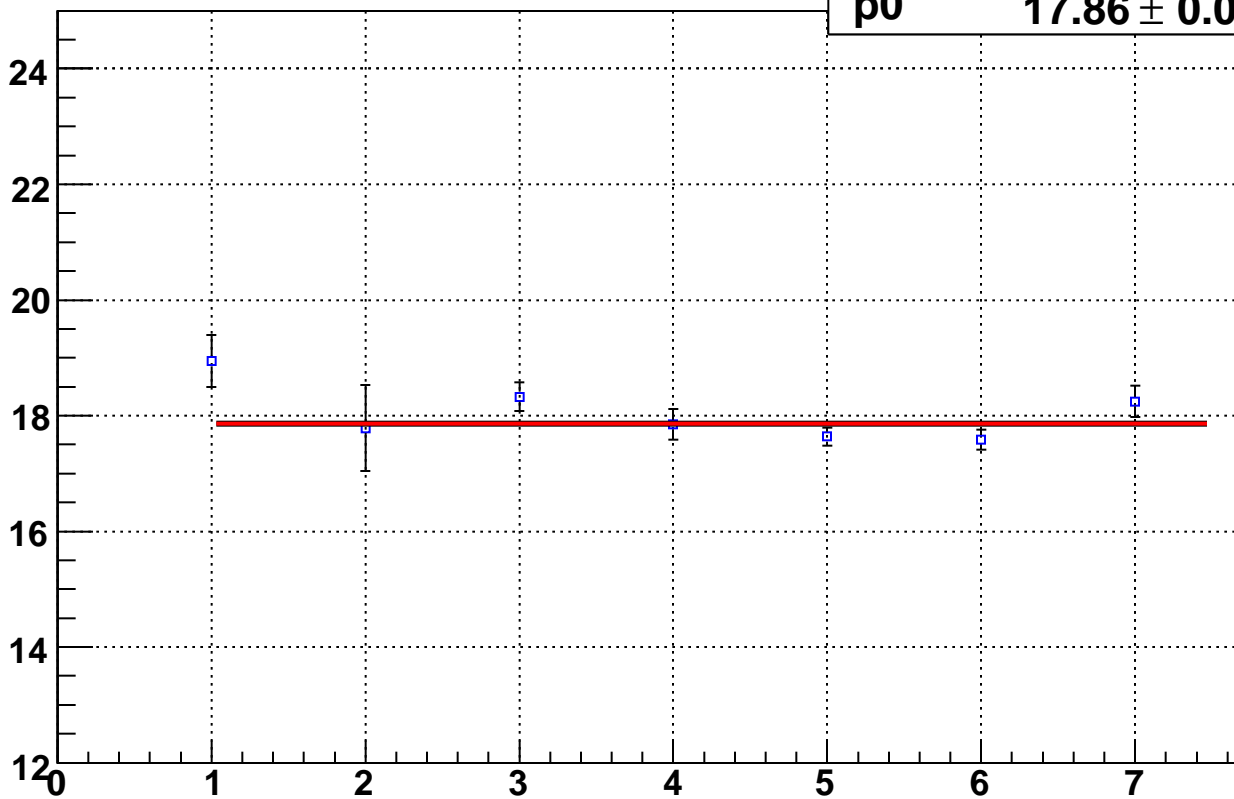
$\chi^2 / \text{ndf}$

15.97 / 6

p0

$17.86 \pm 0.08979$

mip Position



"Fill Time"

**Eta Bin 3 mip Positions Vs. Time (rebinned b**

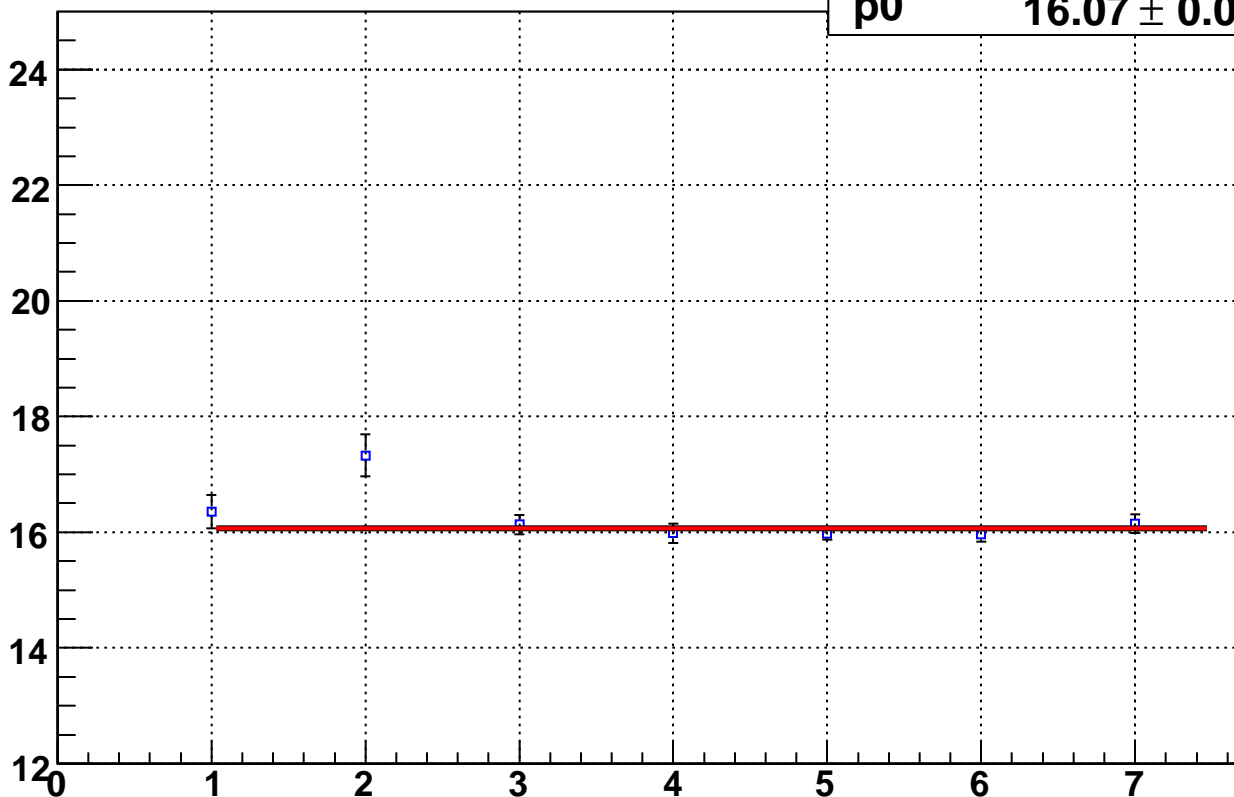
$\chi^2 / \text{ndf}$

15.36 / 6

p0

$16.07 \pm 0.05879$

mip Position



"Fill Time"

**Eta Bin 4 mip Positions Vs. Time (rebinned b**

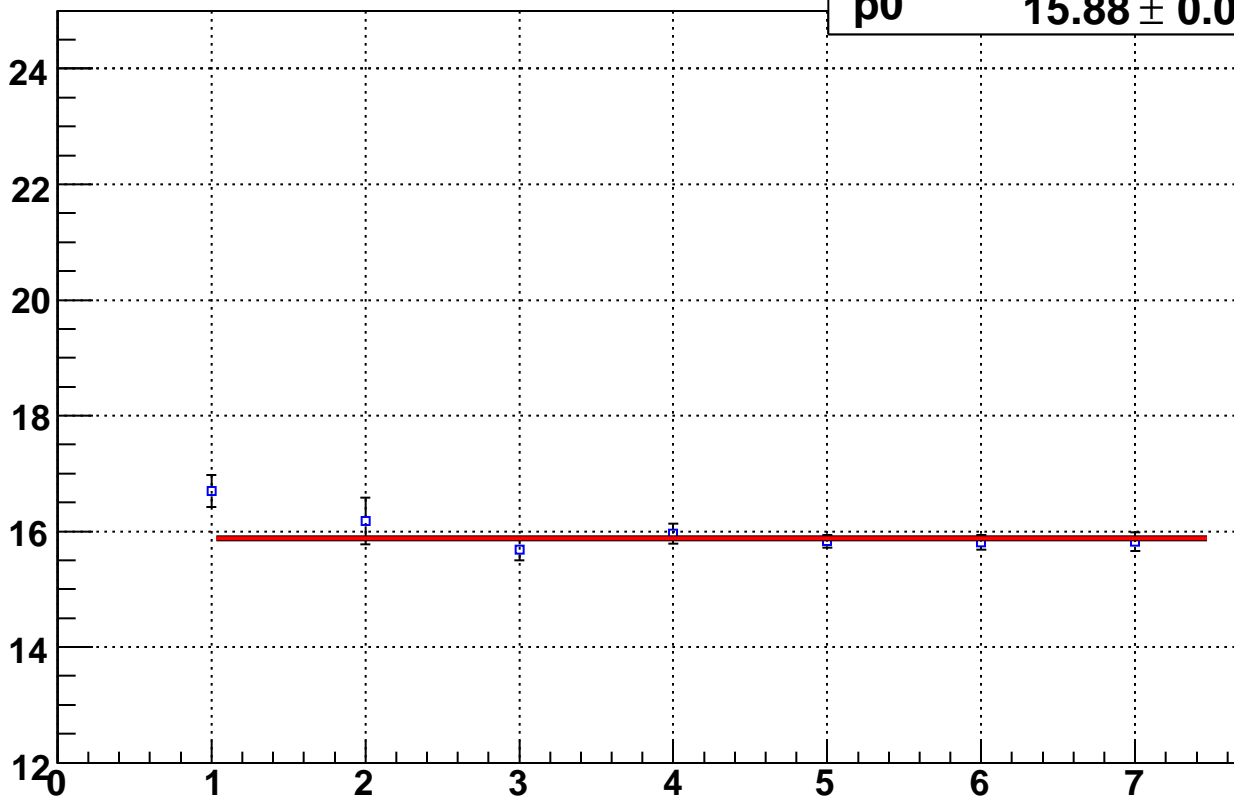
$\chi^2 / \text{ndf}$

11.02 / 6

p0

$15.88 \pm 0.06196$

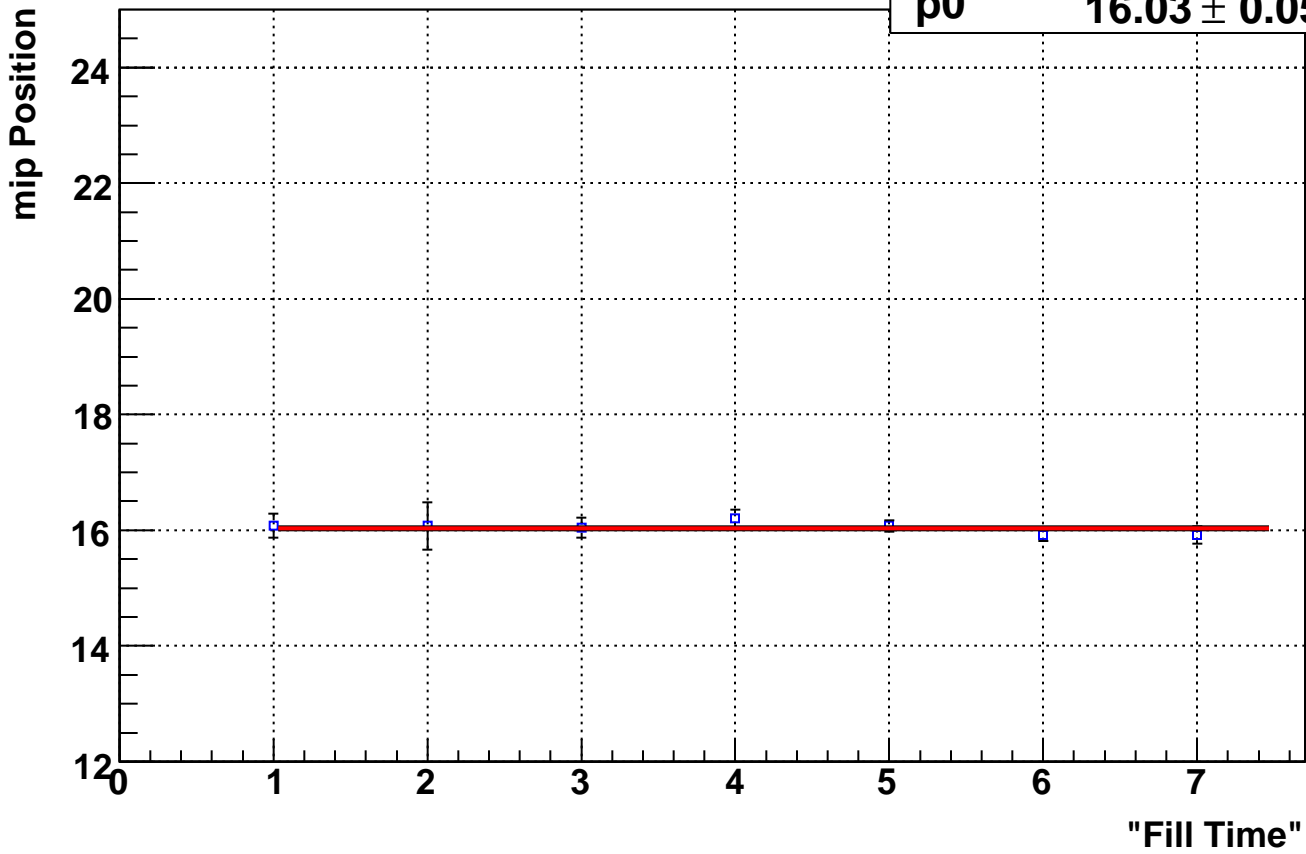
mip Position



"Fill Time"

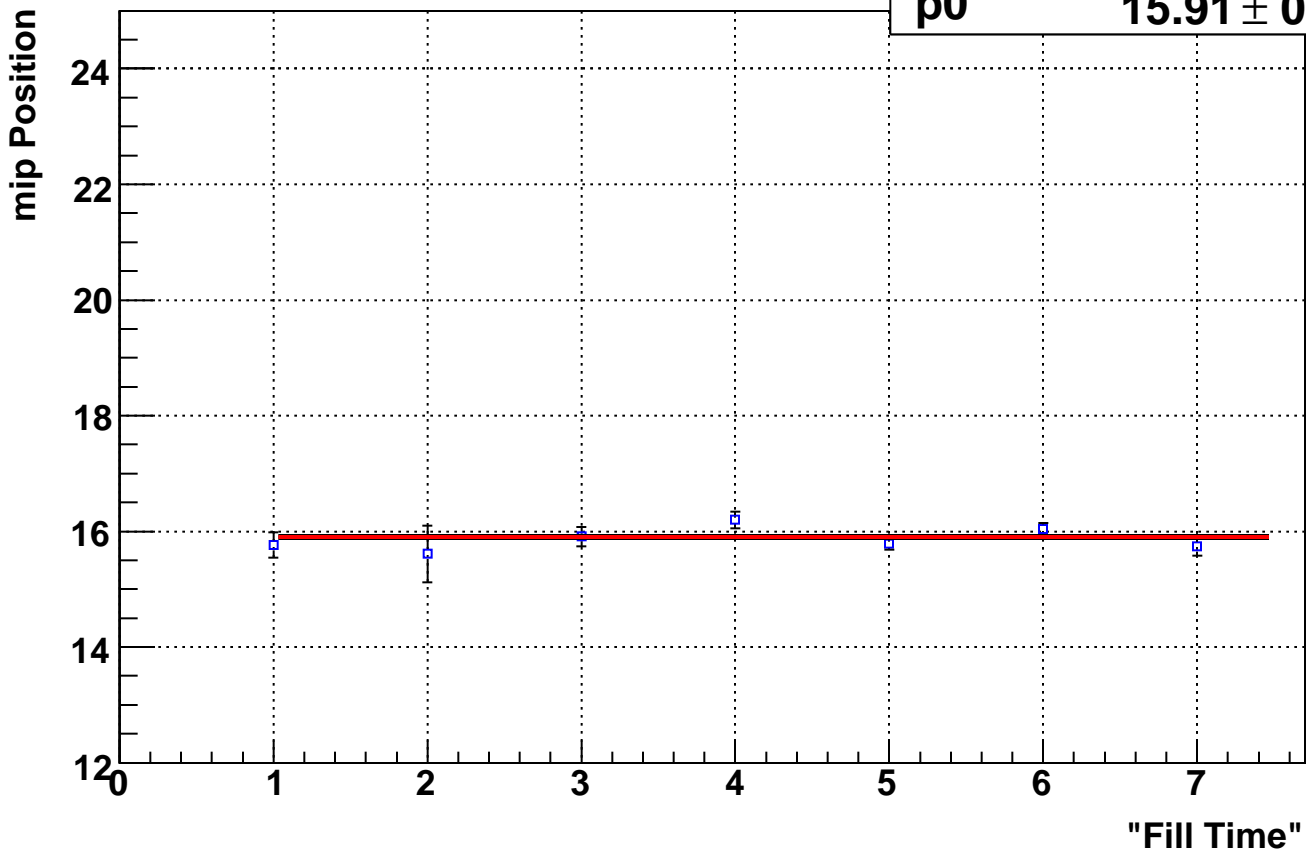
**Eta Bin 5 mip Positions Vs. Time (rebinned b**

$\chi^2 / \text{ndf}$  3.319 / 6  
 $p_0$   $16.03 \pm 0.05456$



**Eta Bin 6 mip Positions Vs. Time (rebinned b**

$\chi^2 / \text{ndf}$  8.731 / 6  
 $p_0$   $15.91 \pm 0.055$





**Eta Bin 7 mip Positions Vs. Time (rebinned b**

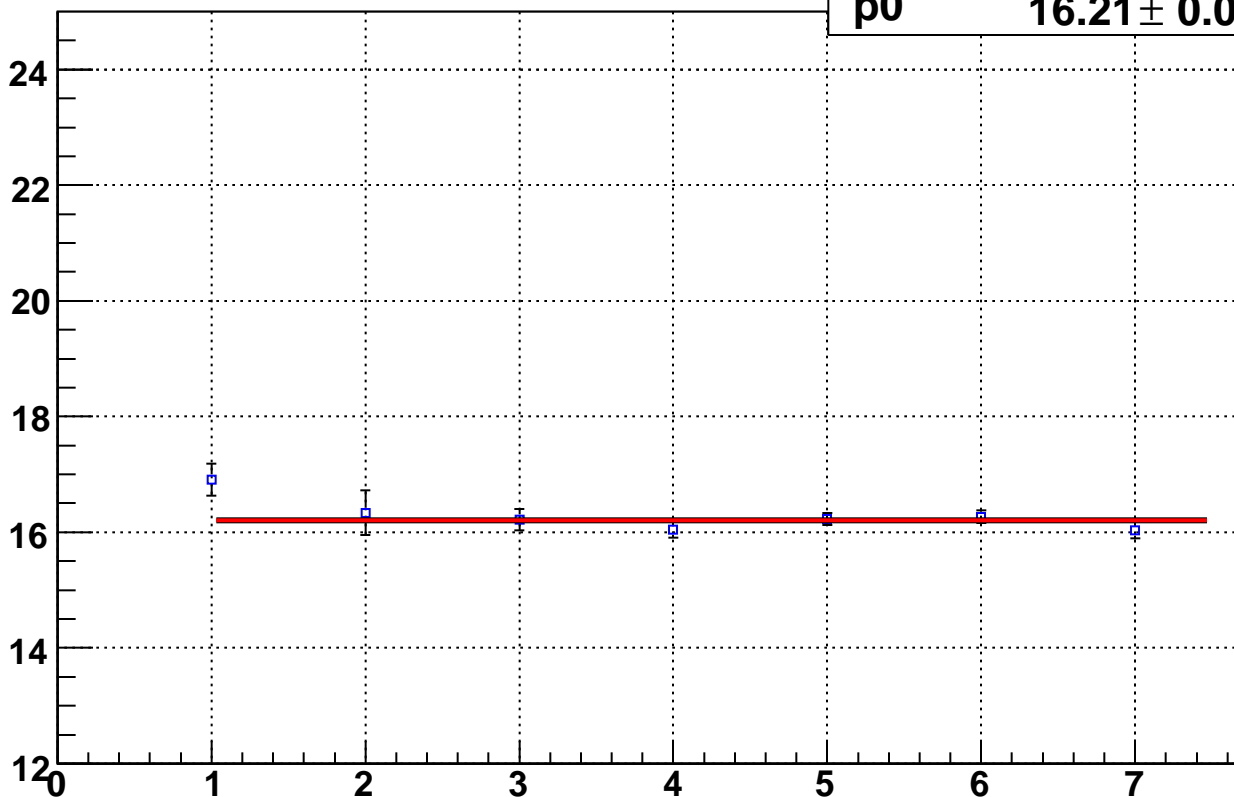
$\chi^2 / \text{ndf}$

9.74 / 6

p0

$16.21 \pm 0.05515$

mip Position



"Fill Time"

**Eta Bin 8 mip Positions Vs. Time (rebinned b**

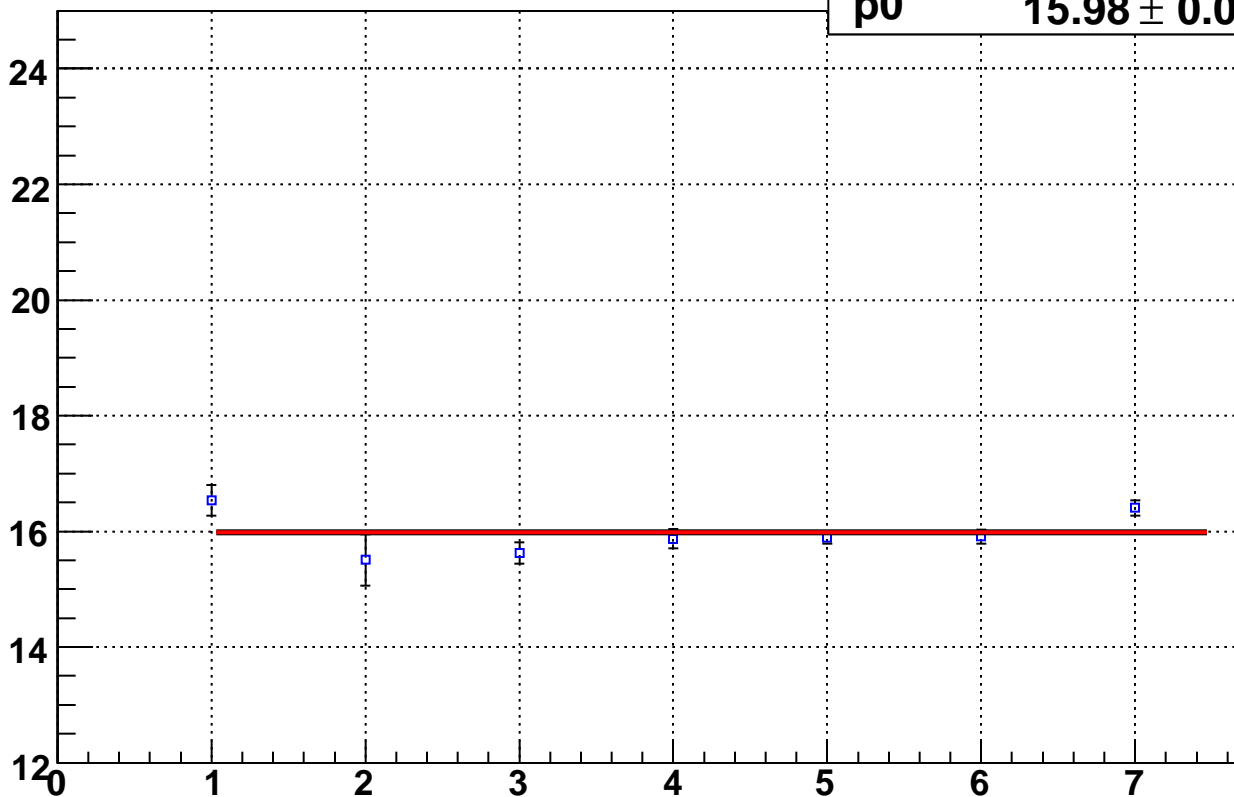
$\chi^2 / \text{ndf}$

20.45 / 6

p0

$15.98 \pm 0.05719$

mip Position

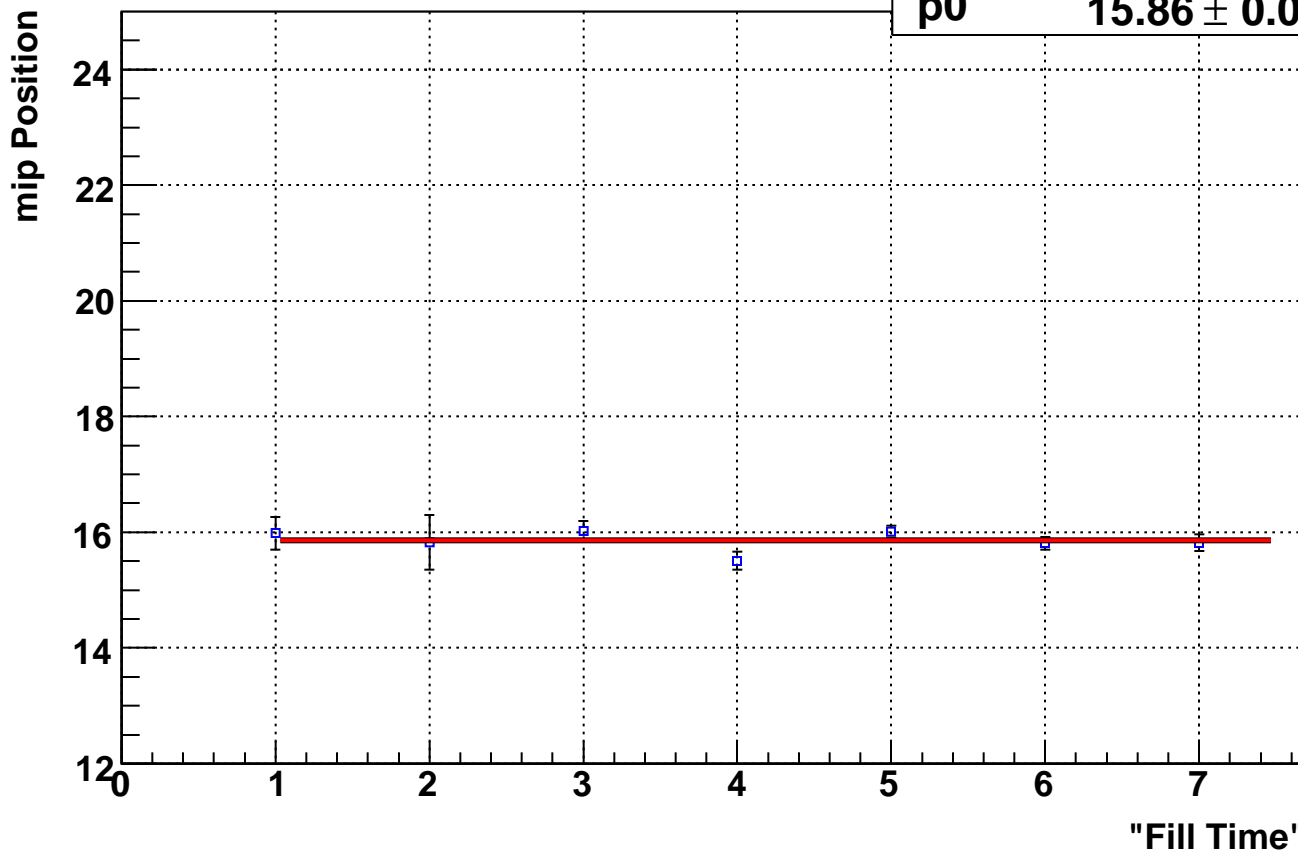


"Fill Time"

**Eta Bin 9 mip Positions Vs. Time (rebinned b**

$\chi^2 / \text{ndf}$  8.506 / 6

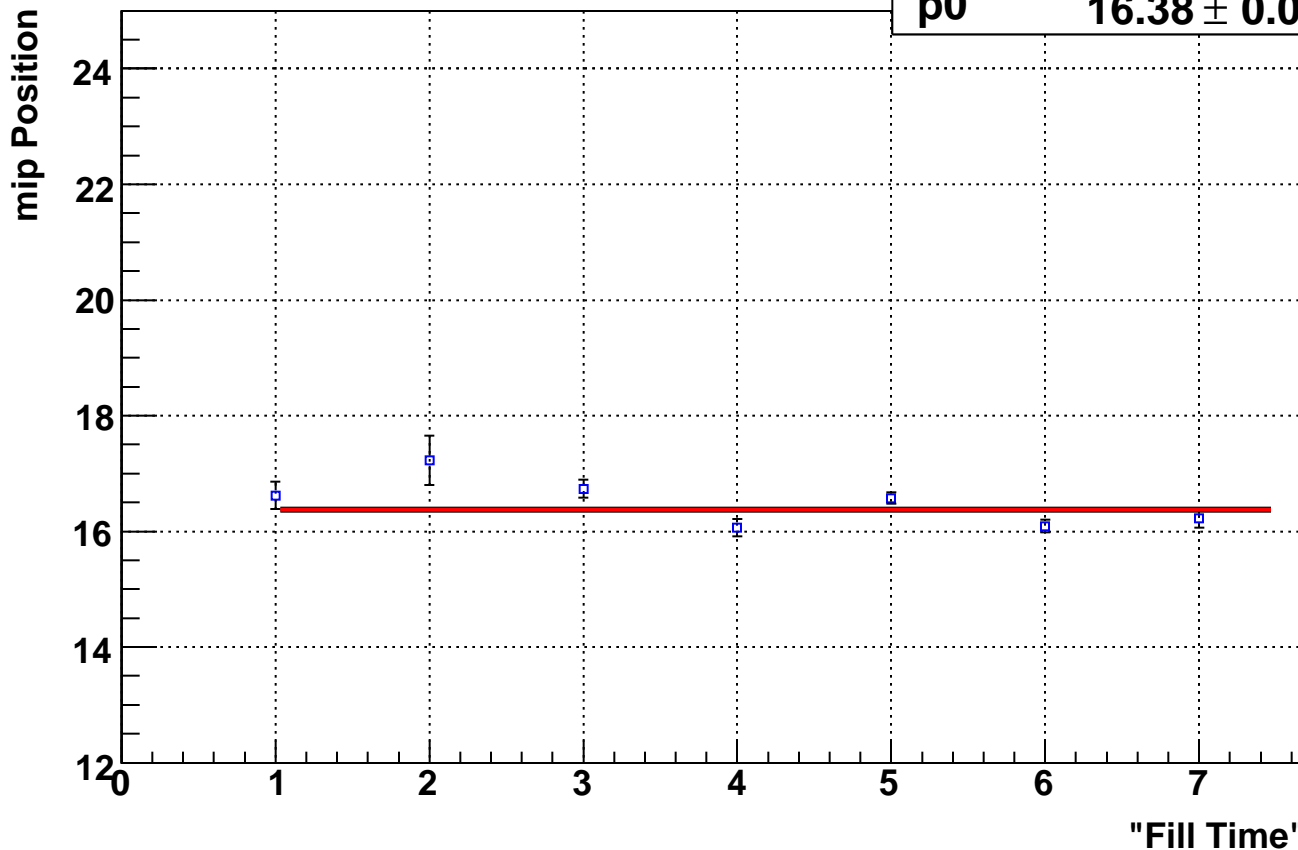
p0 15.86 ± 0.05615



**Eta Bin 10 mip Positions Vs. Time (rebinned b**

$\chi^2 / \text{ndf}$  26.54 / 6

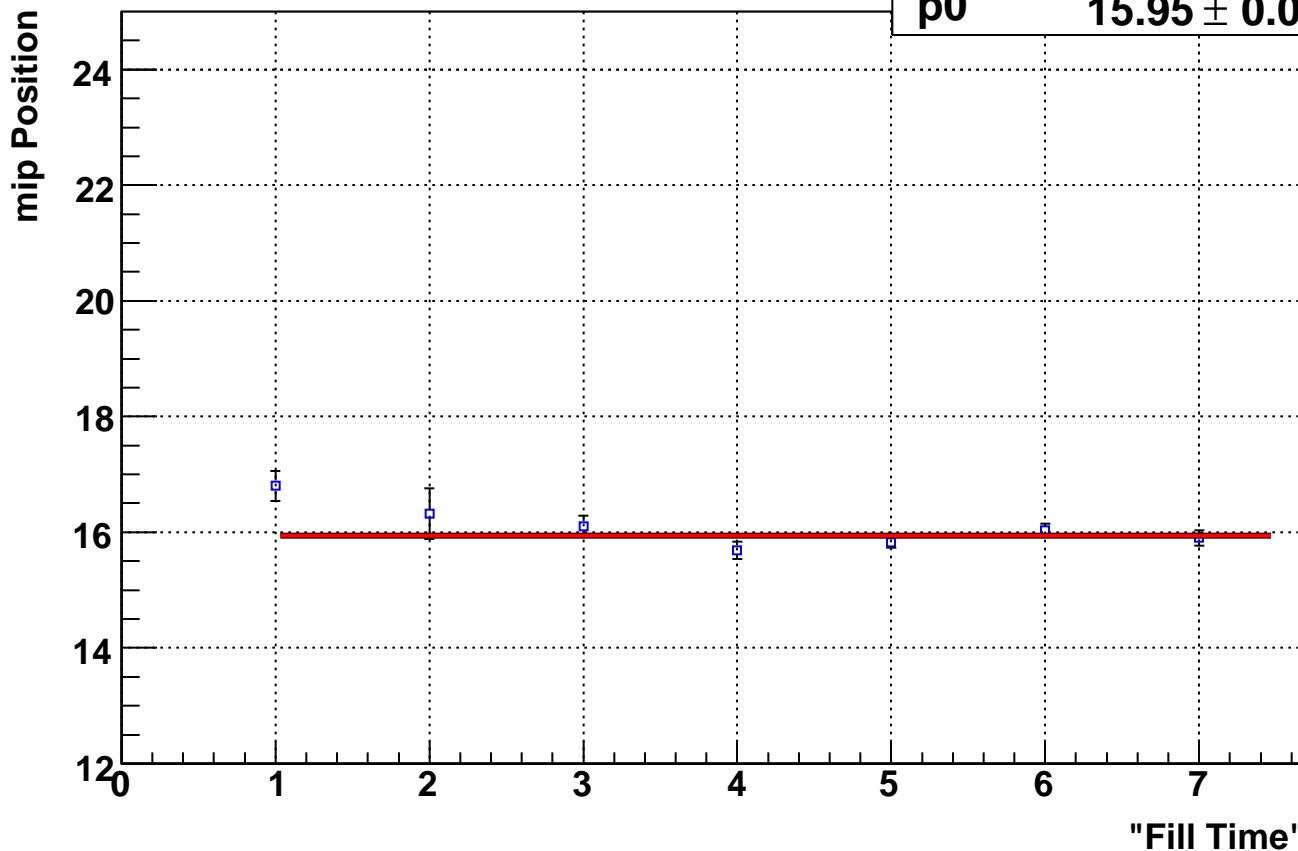
p0 16.38 ± 0.05462



**Eta Bin 11 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  17.54 / 6

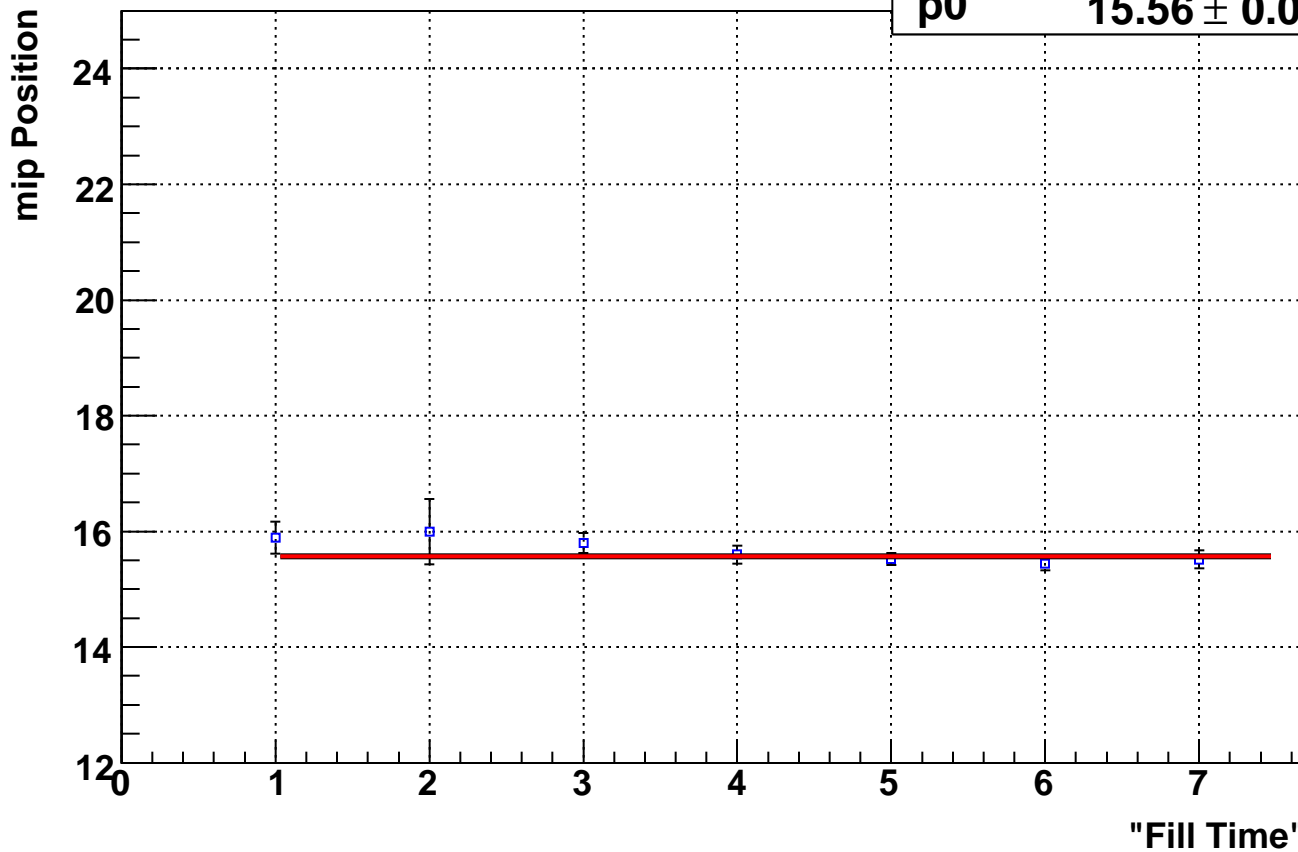
p0 15.95 ± 0.05472



**Eta Bin 12 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  5.431 / 6

p0 15.56 ± 0.05722



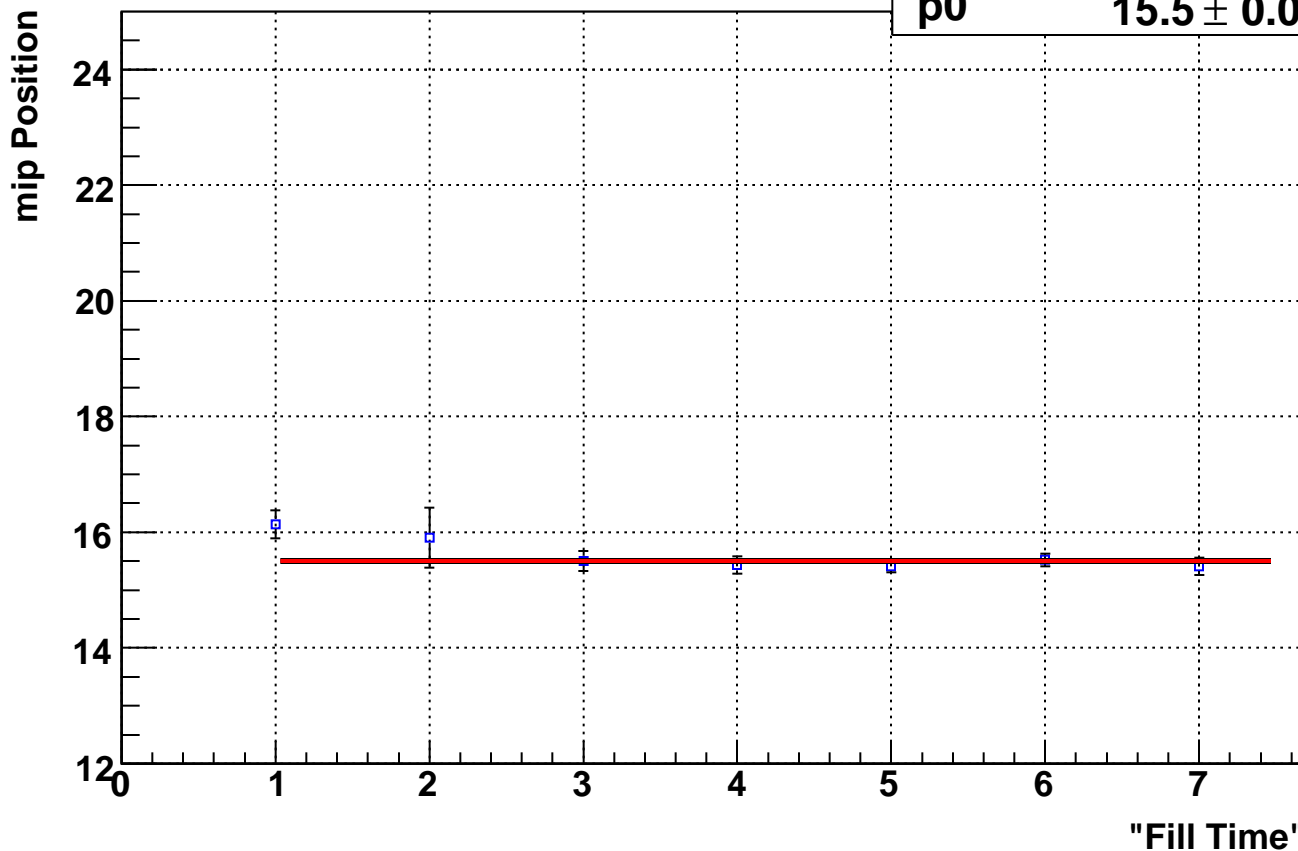
**Eta Bin 13 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

8.902 / 6

p0

$15.5 \pm 0.05636$



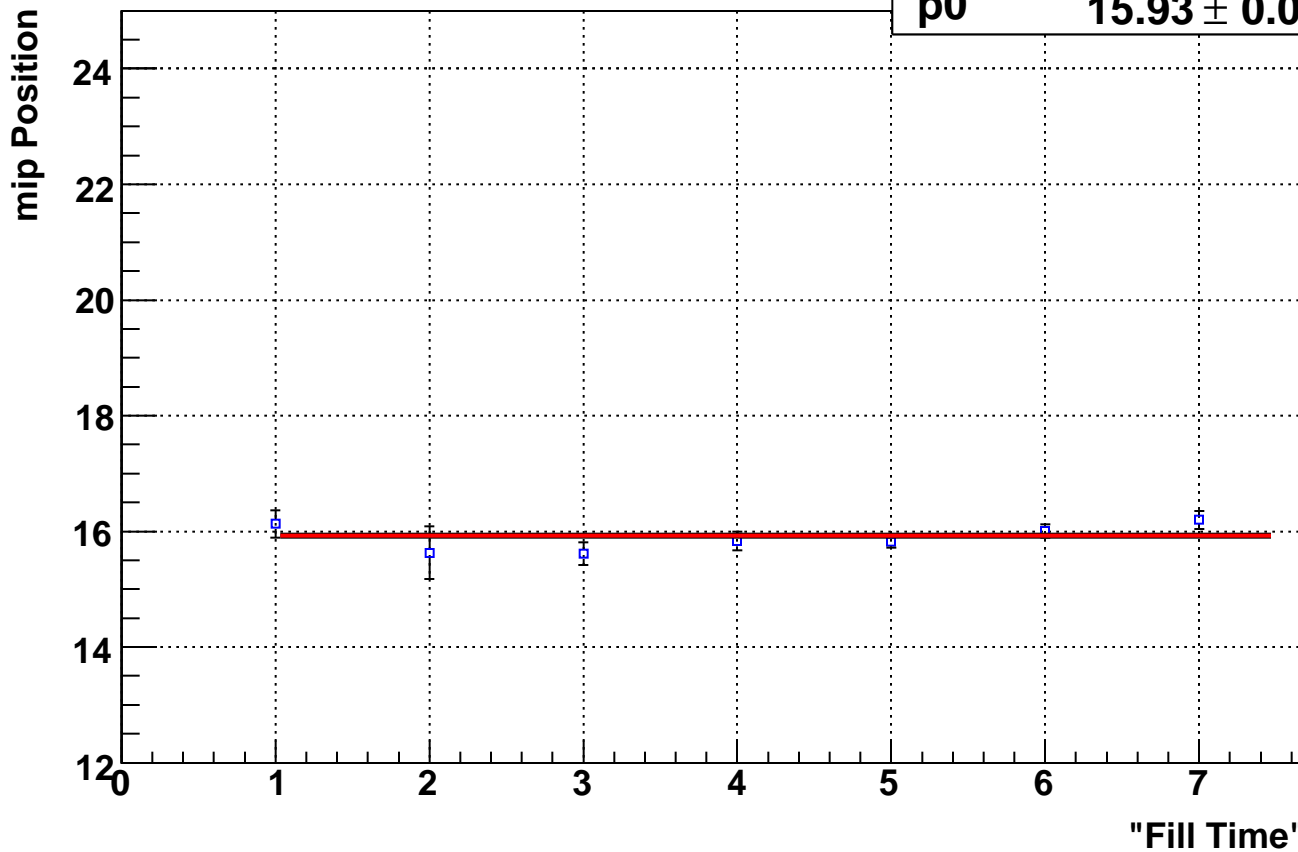
**Eta Bin 14 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

8.521 / 6

p0

$15.93 \pm 0.05769$



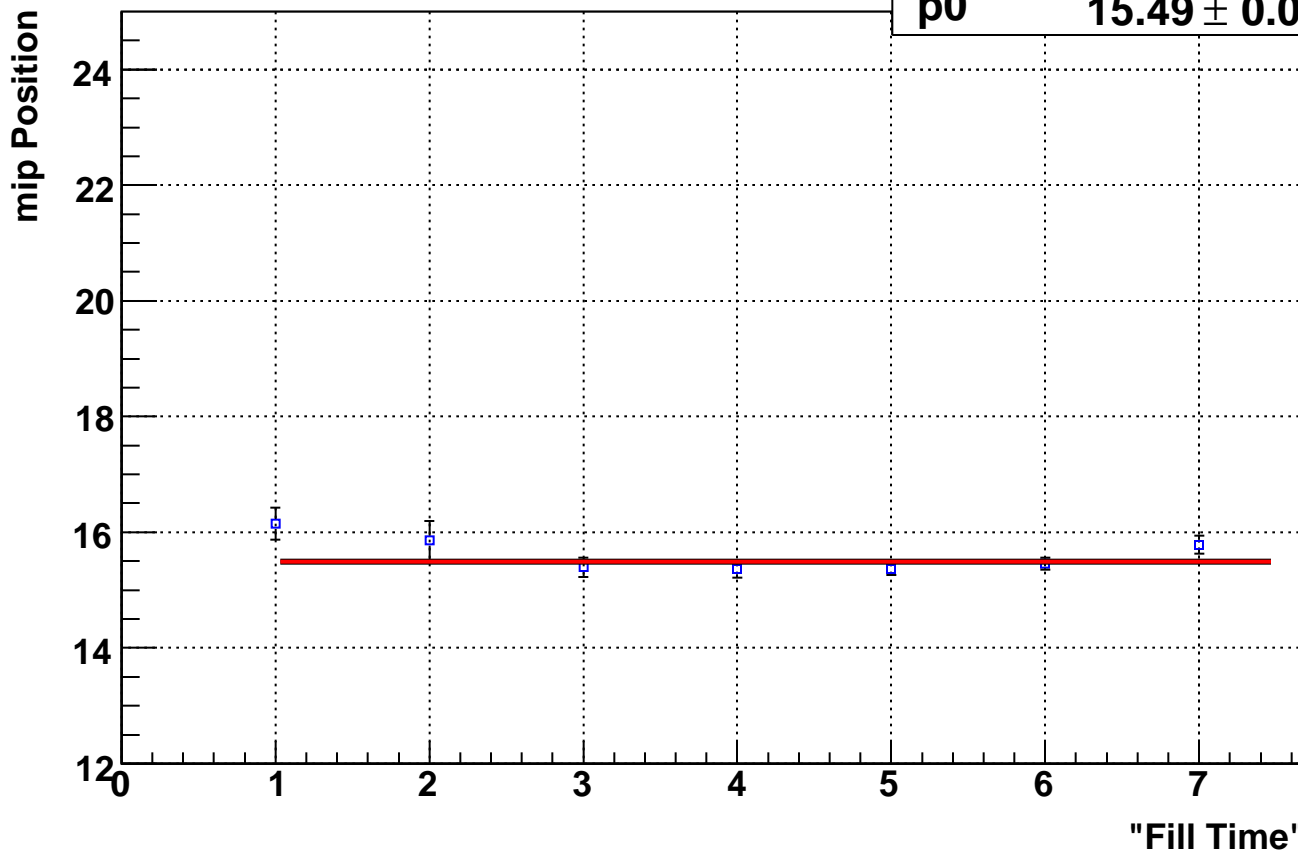
**Eta Bin 15 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

12.77 / 6

p0

$15.49 \pm 0.05508$



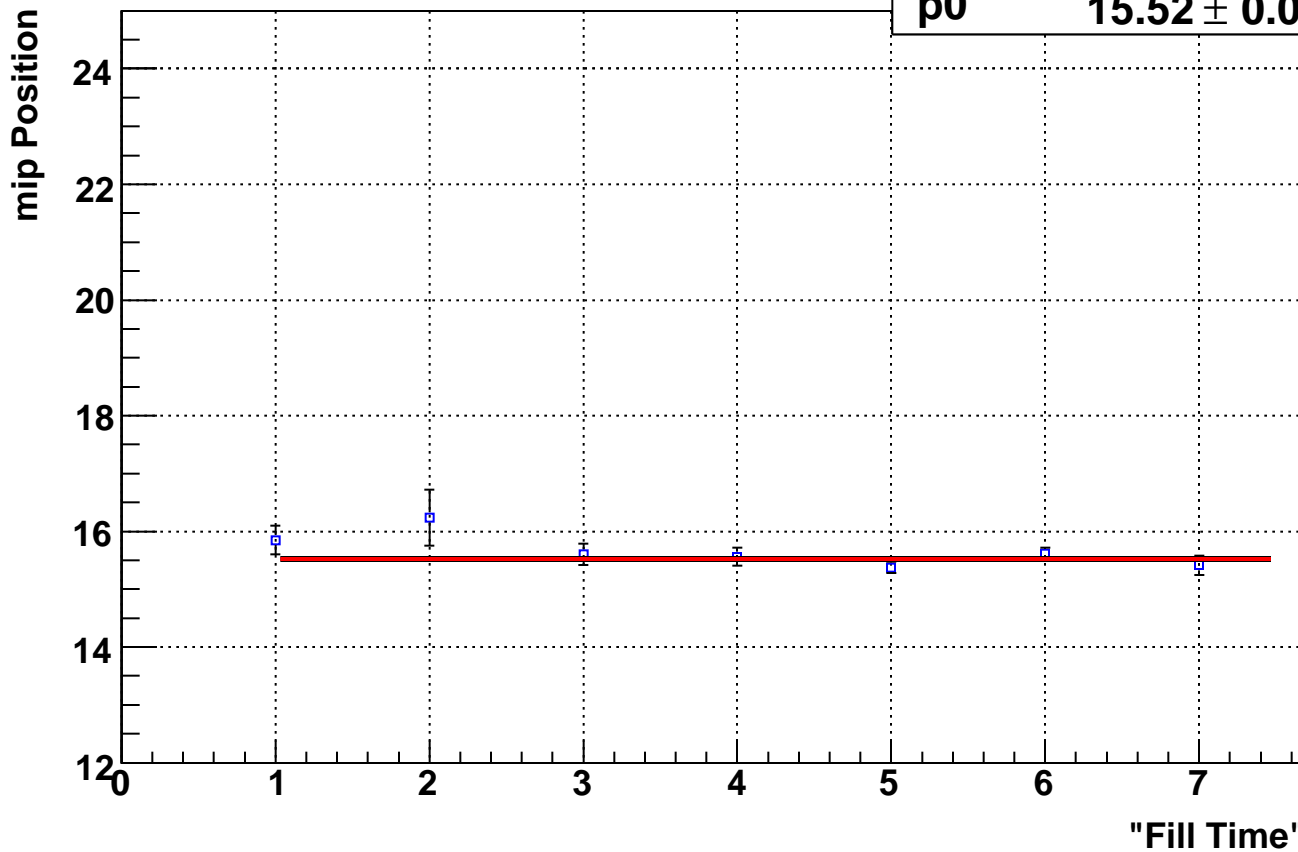
**Eta Bin 16 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

7.492 / 6

p0

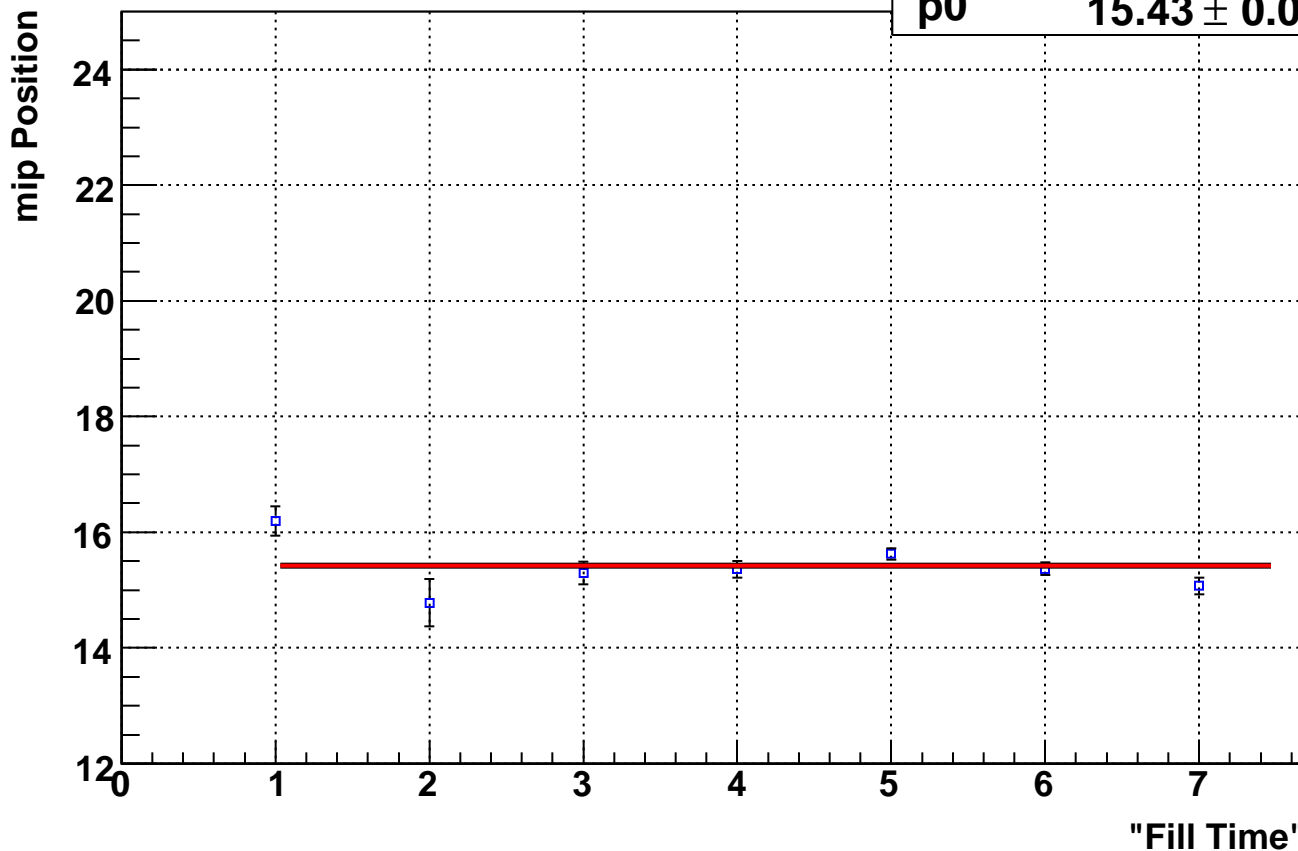
$15.52 \pm 0.05665$



**Eta Bin 17 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  22.79 / 6

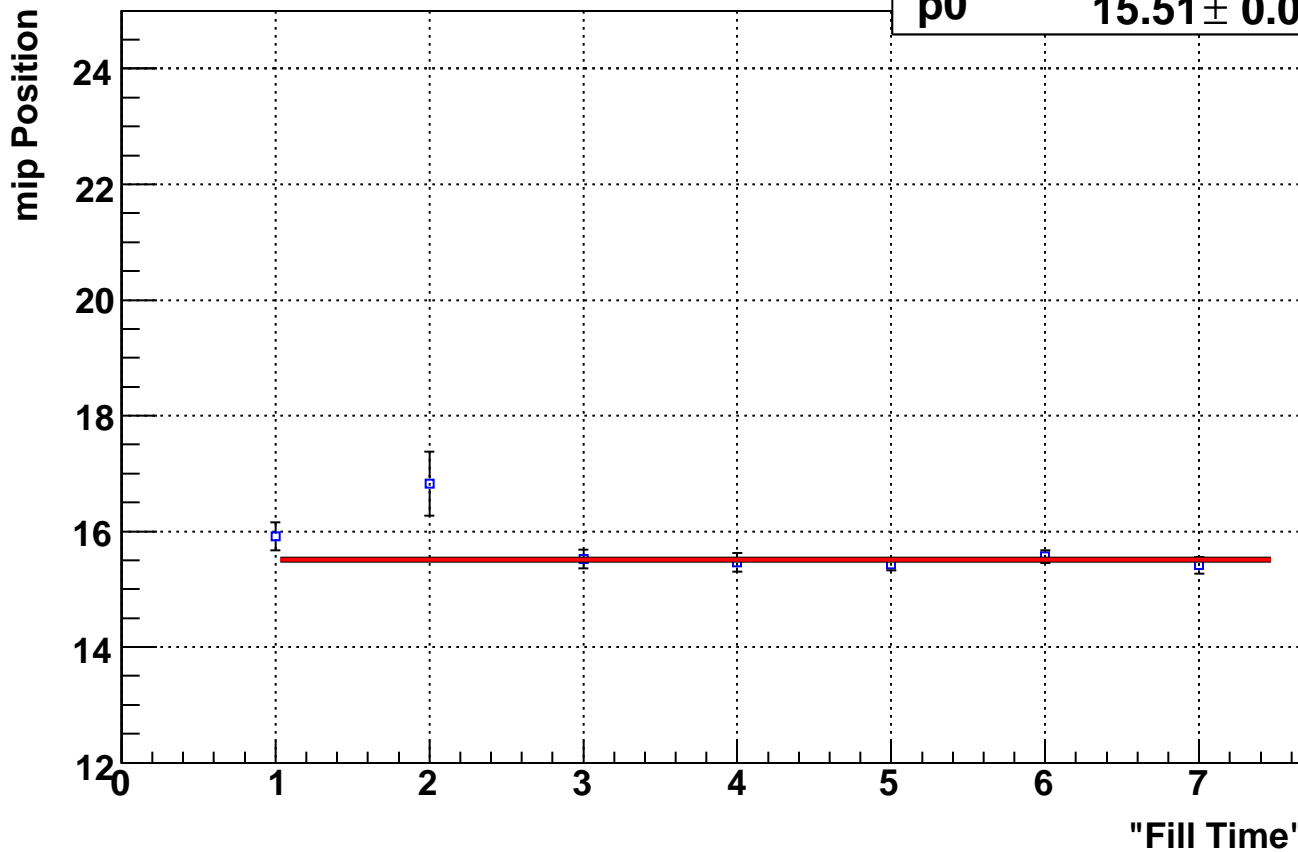
p0 15.43 ± 0.05509



**Eta Bin 18 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  9.988 / 6

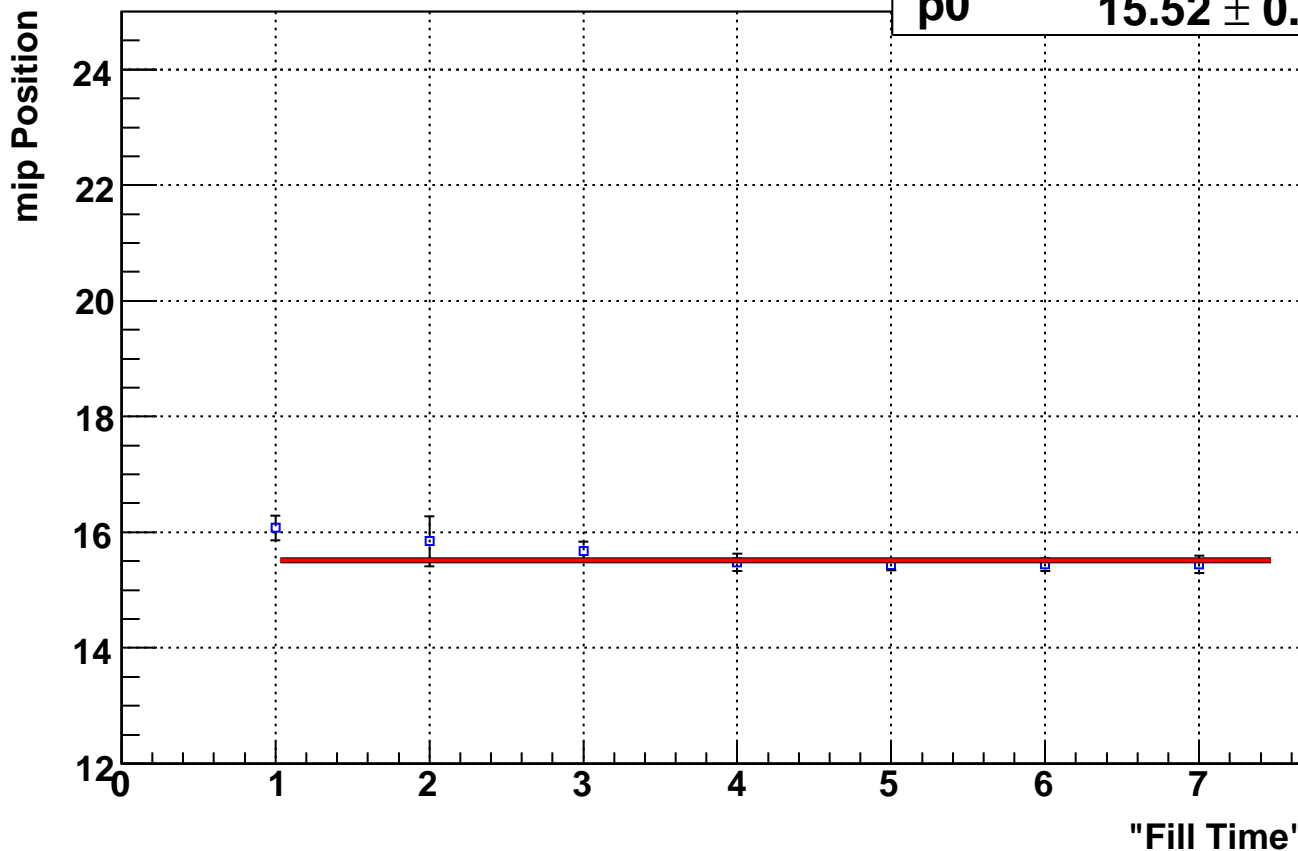
p0 15.51 ± 0.05492



**Eta Bin 19 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  9.463 / 6

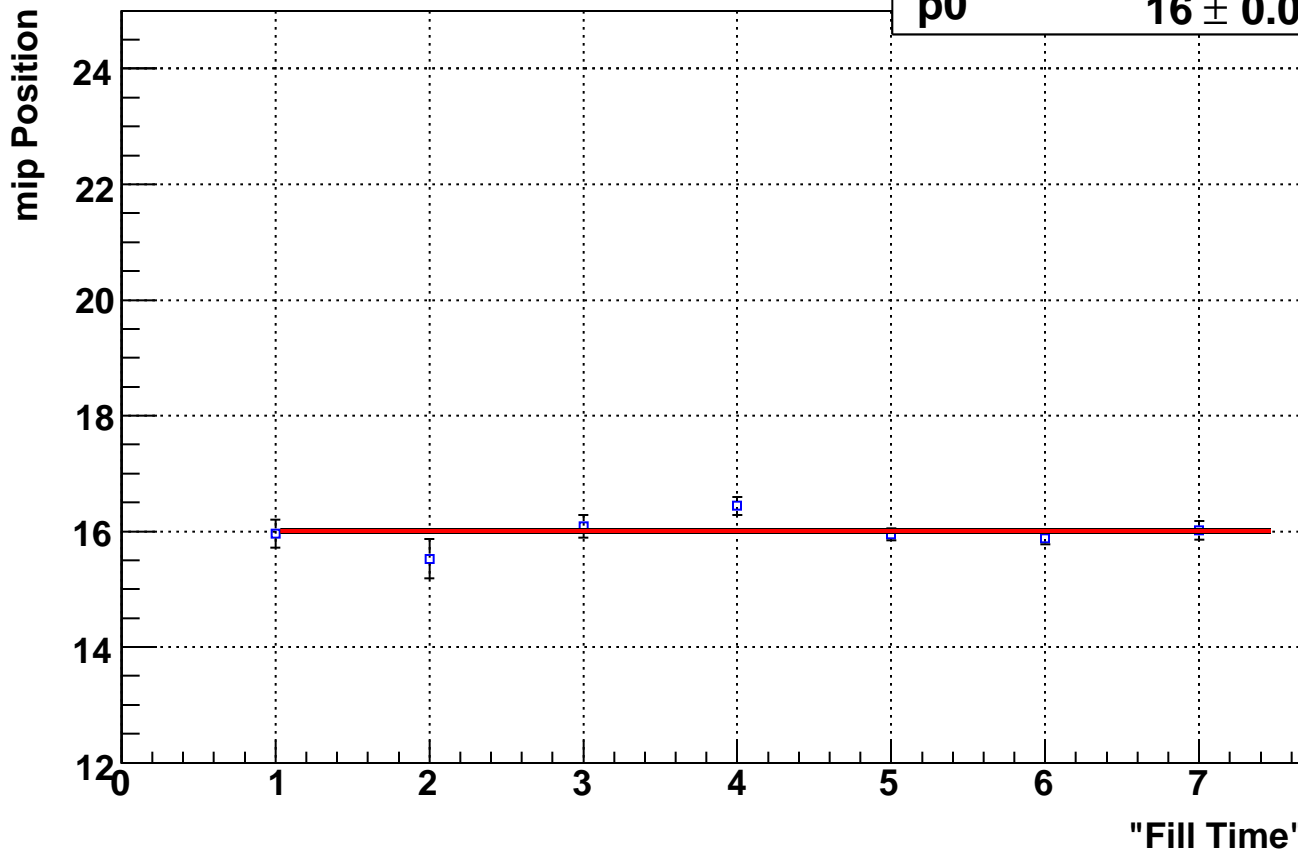
p0 15.52 ± 0.0541



**Eta Bin 20 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  11.8 / 6

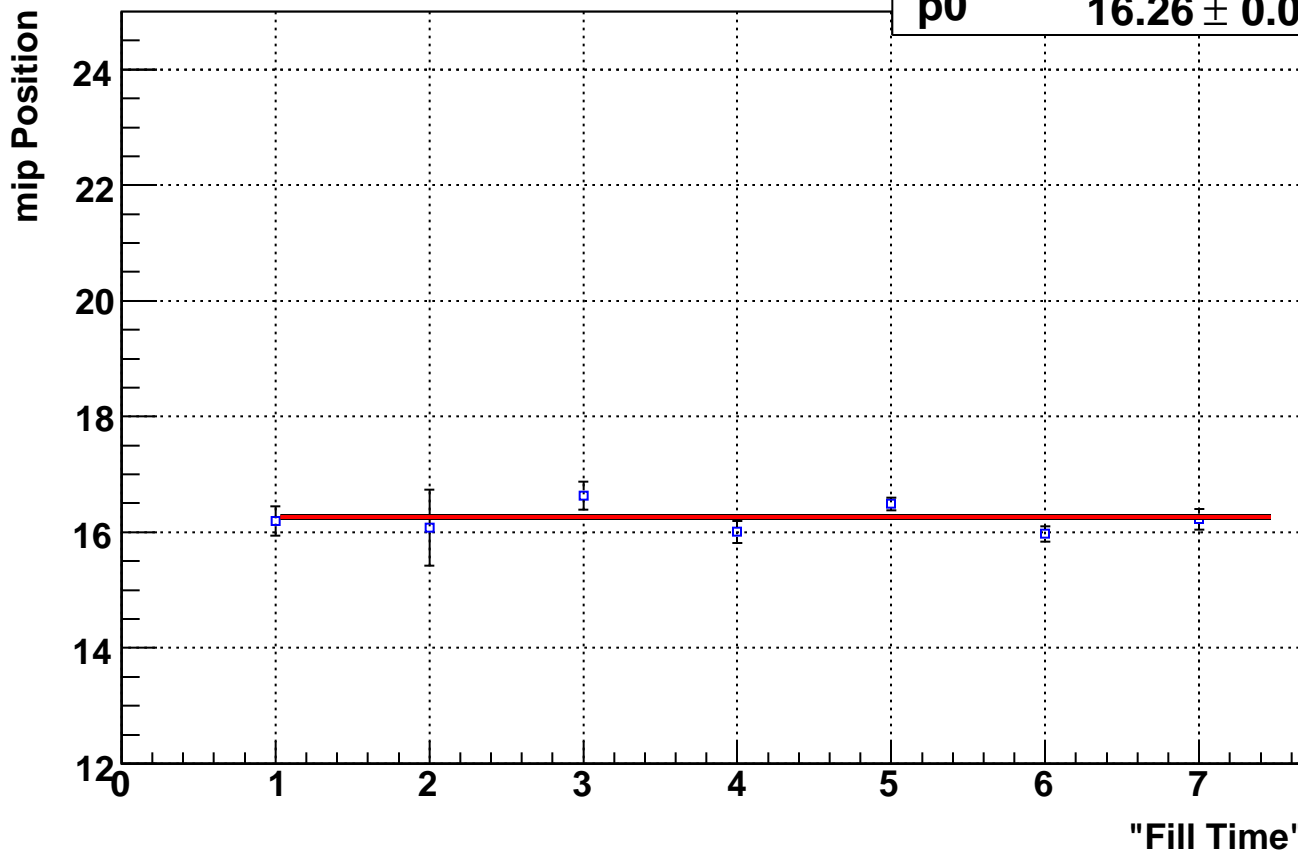
p0 16 ± 0.05696



**Eta Bin 21 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  13.42 / 6

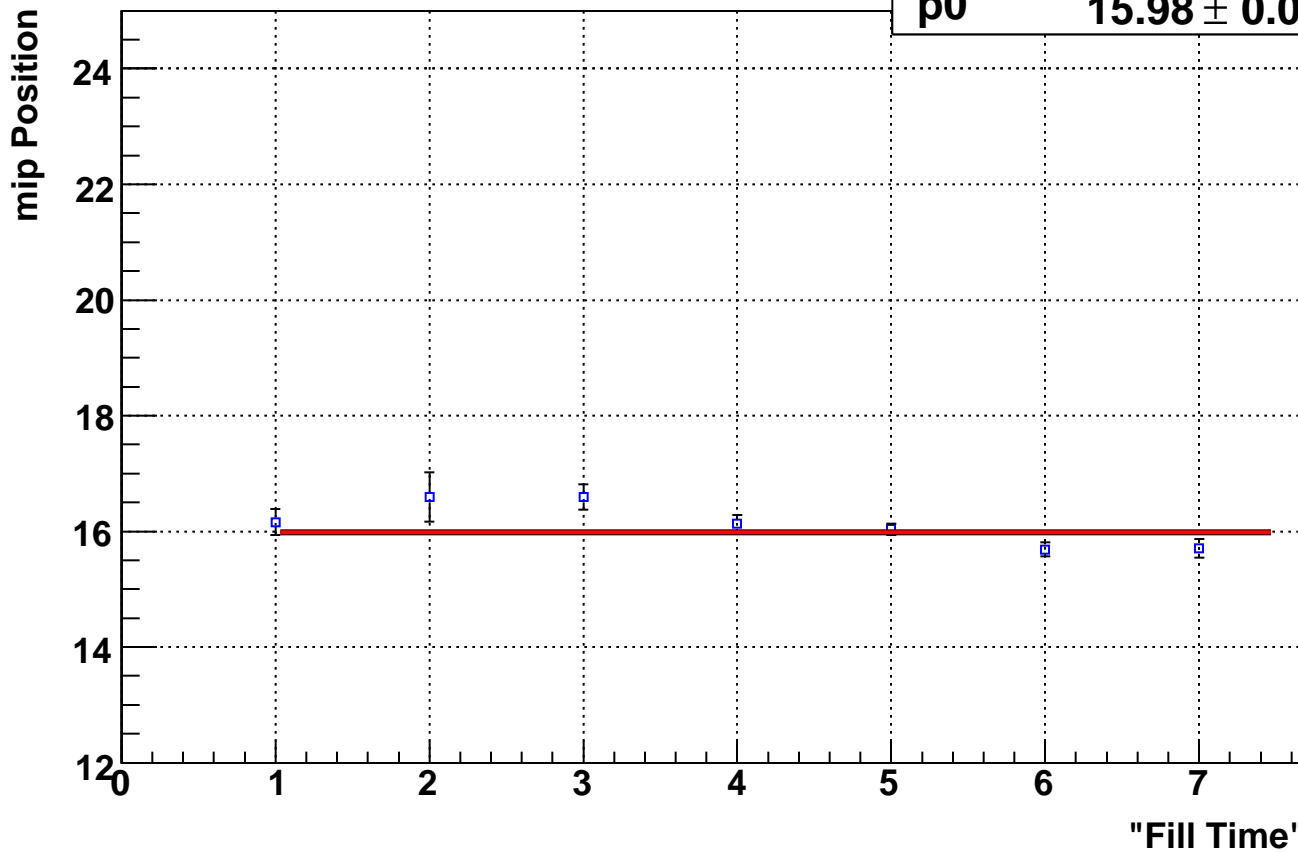
p0 16.26 ± 0.06555



**Eta Bin 22 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  20.74 / 6

p0 15.98 ± 0.05778

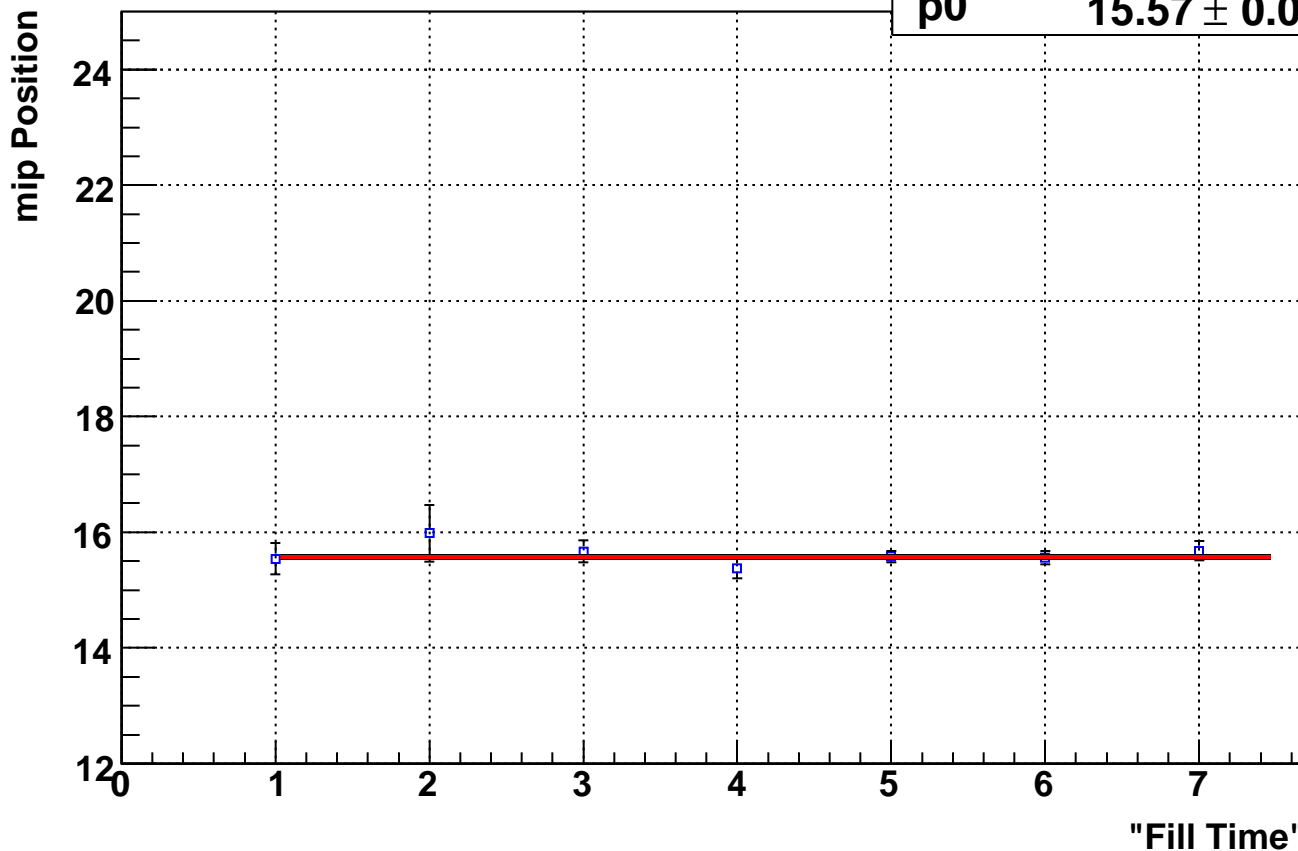




**Eta Bin 23 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  2.696 / 6

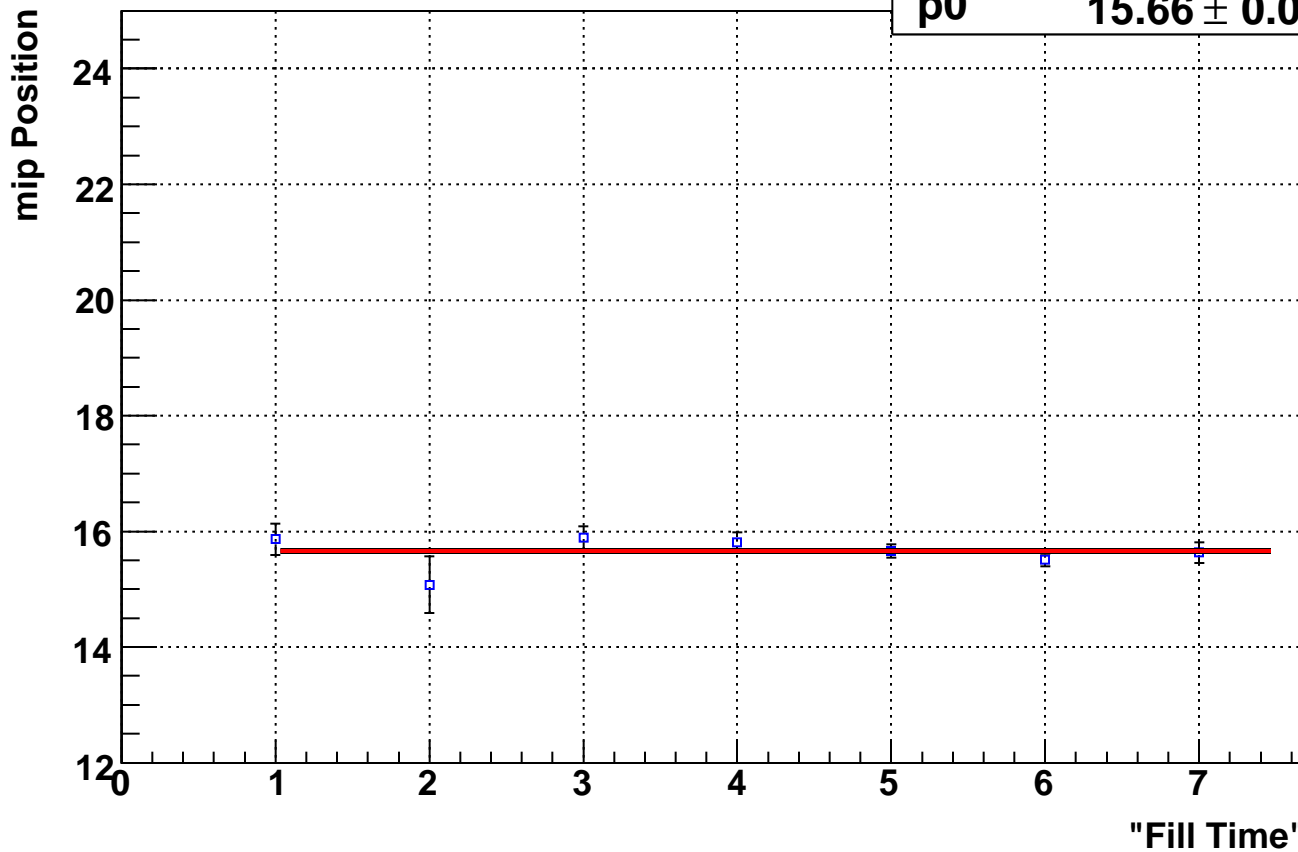
p0 15.57 ± 0.05857



**Eta Bin 24 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  6.107 / 6

p0 15.66 ± 0.06097



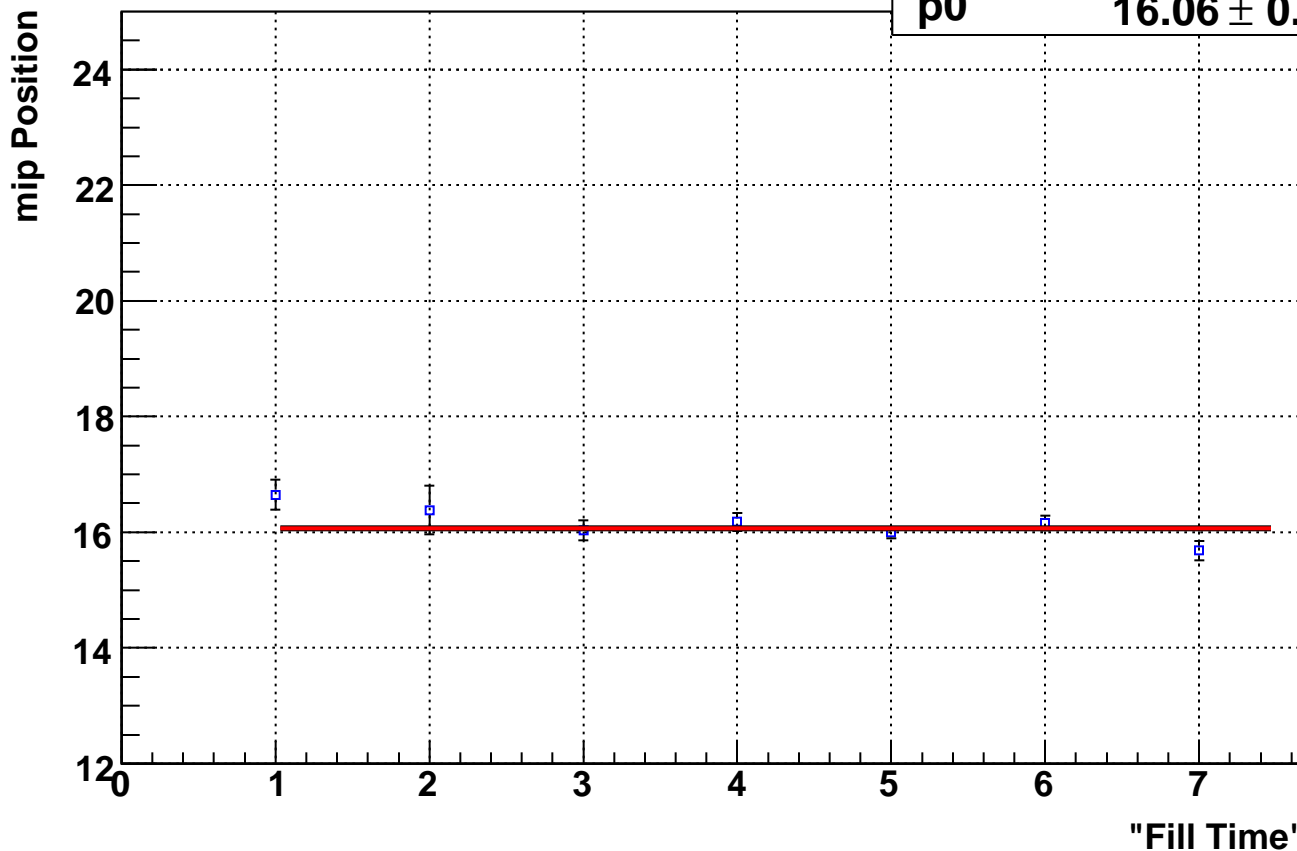
**Eta Bin 25 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

12.27 / 6

p0

$16.06 \pm 0.0589$



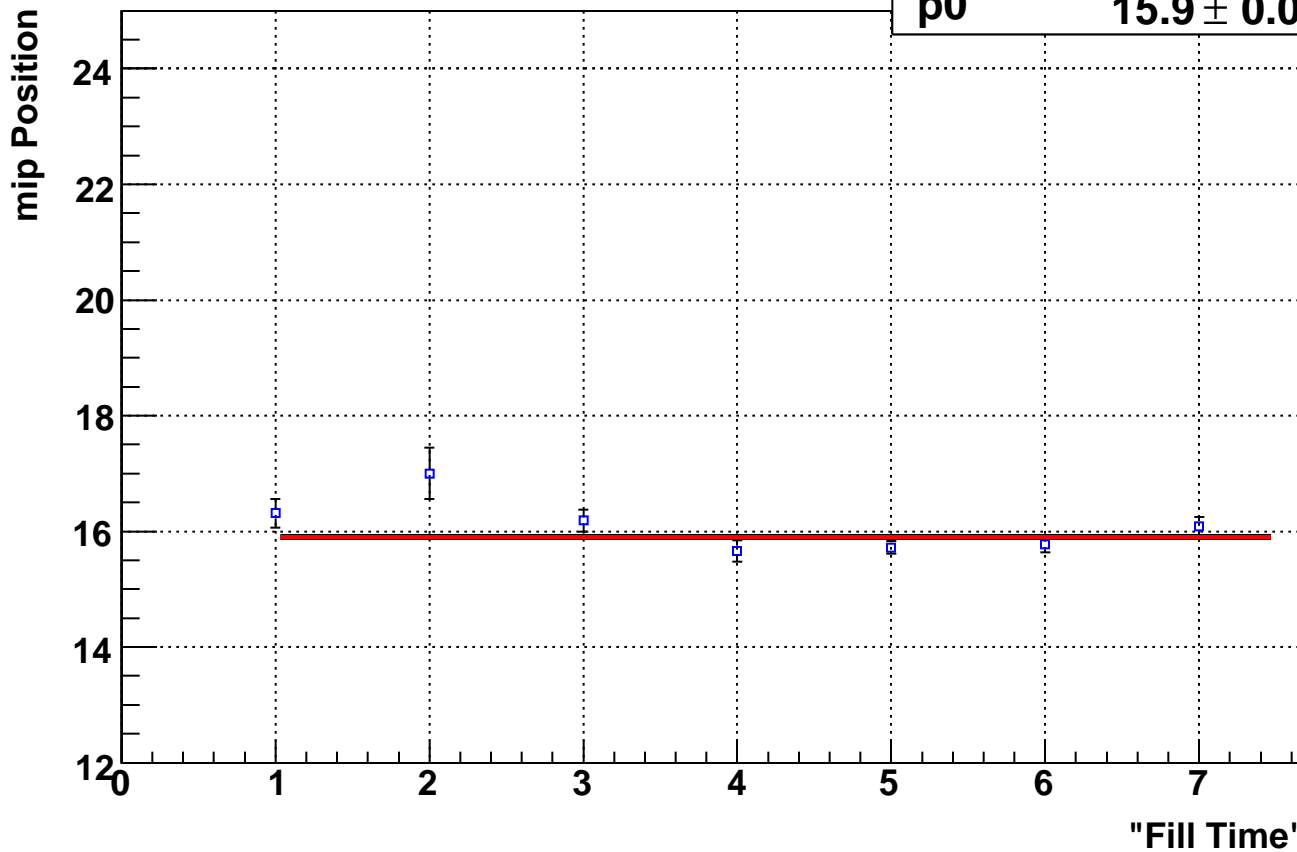
**Eta Bin 26 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

17.75 / 6

p0

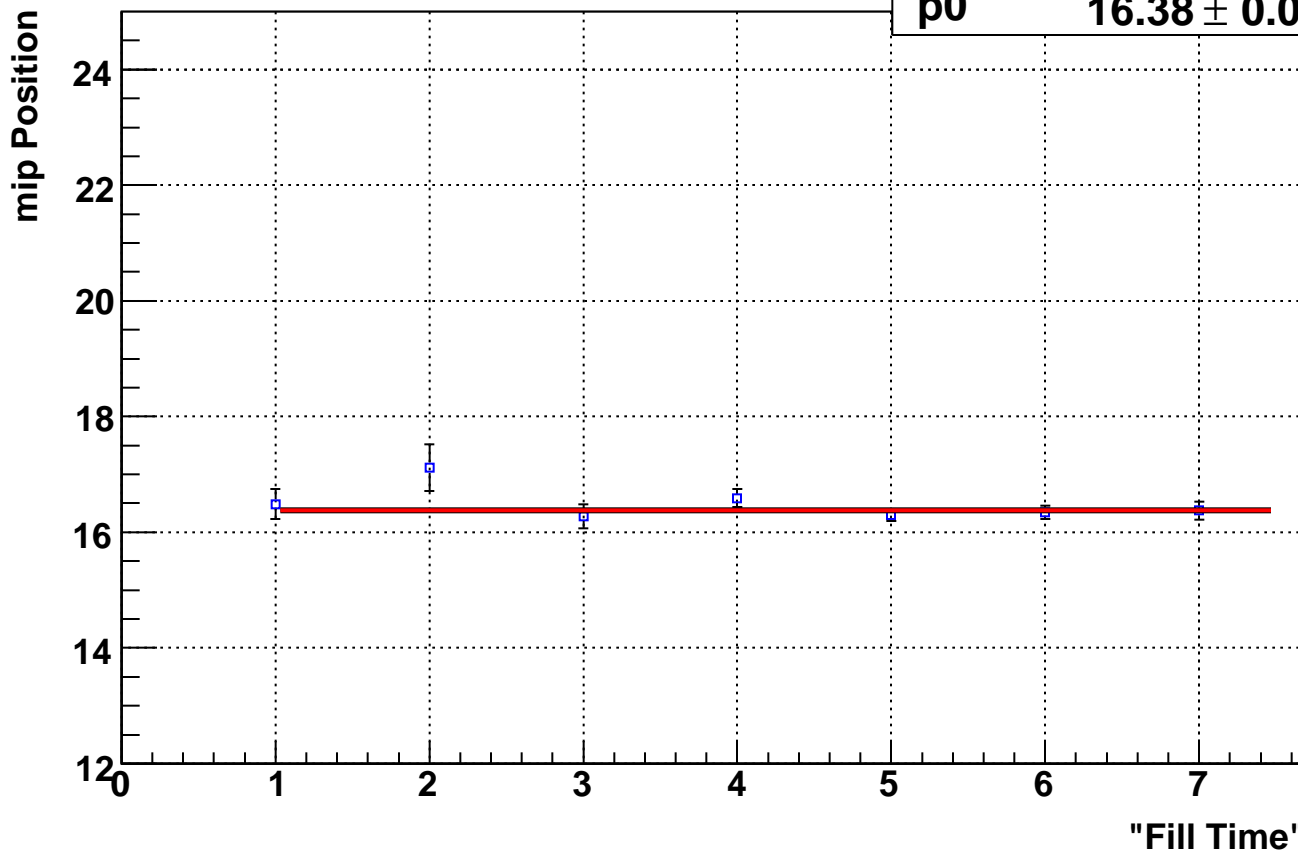
$15.9 \pm 0.06297$



**Eta Bin 27 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  6.271 / 6

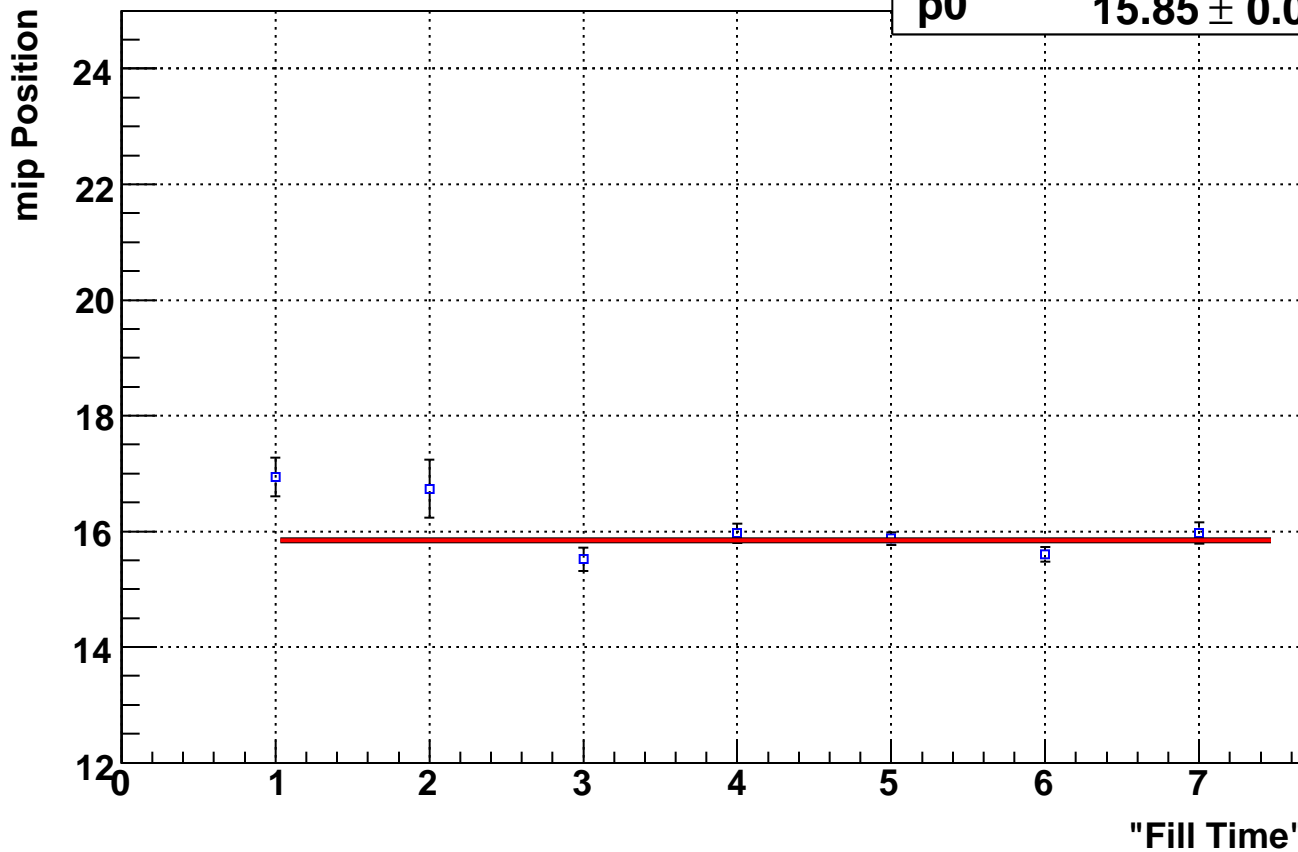
p0 16.38 ± 0.05819



**Eta Bin 28 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  21.46 / 6

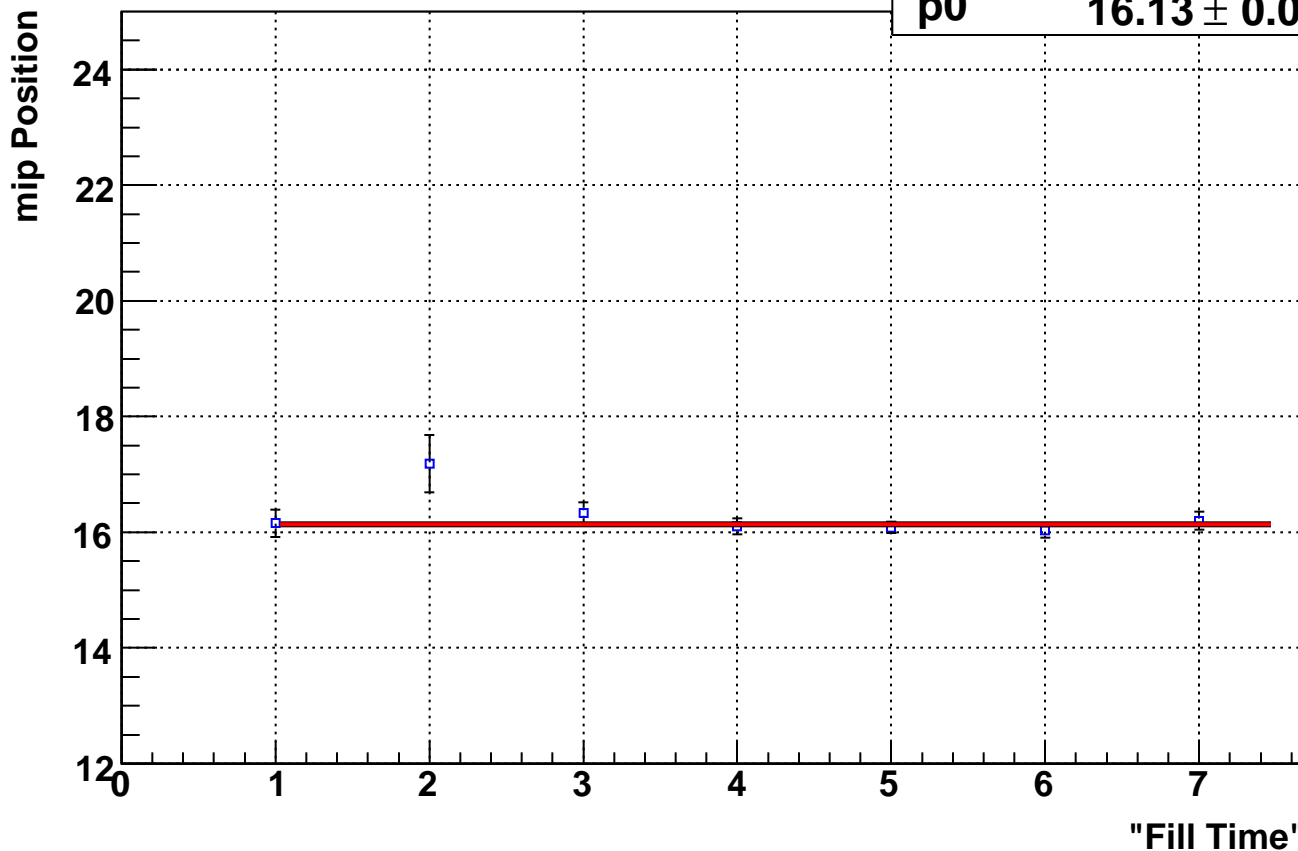
p0 15.85 ± 0.06381



**Eta Bin 29 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  6.895 / 6

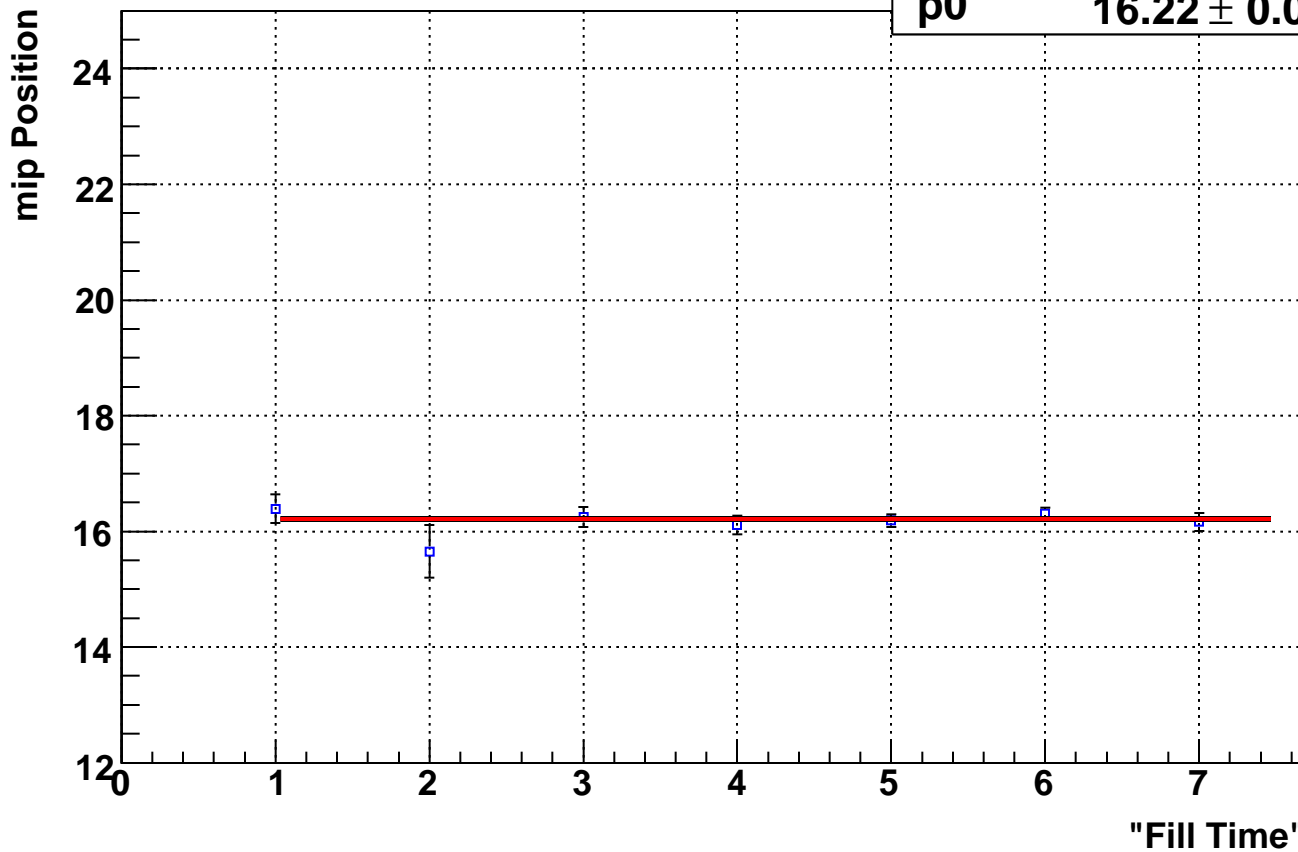
p0 16.13 ± 0.05693



**Eta Bin 30 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  3.271 / 6

p0 16.22 ± 0.05791



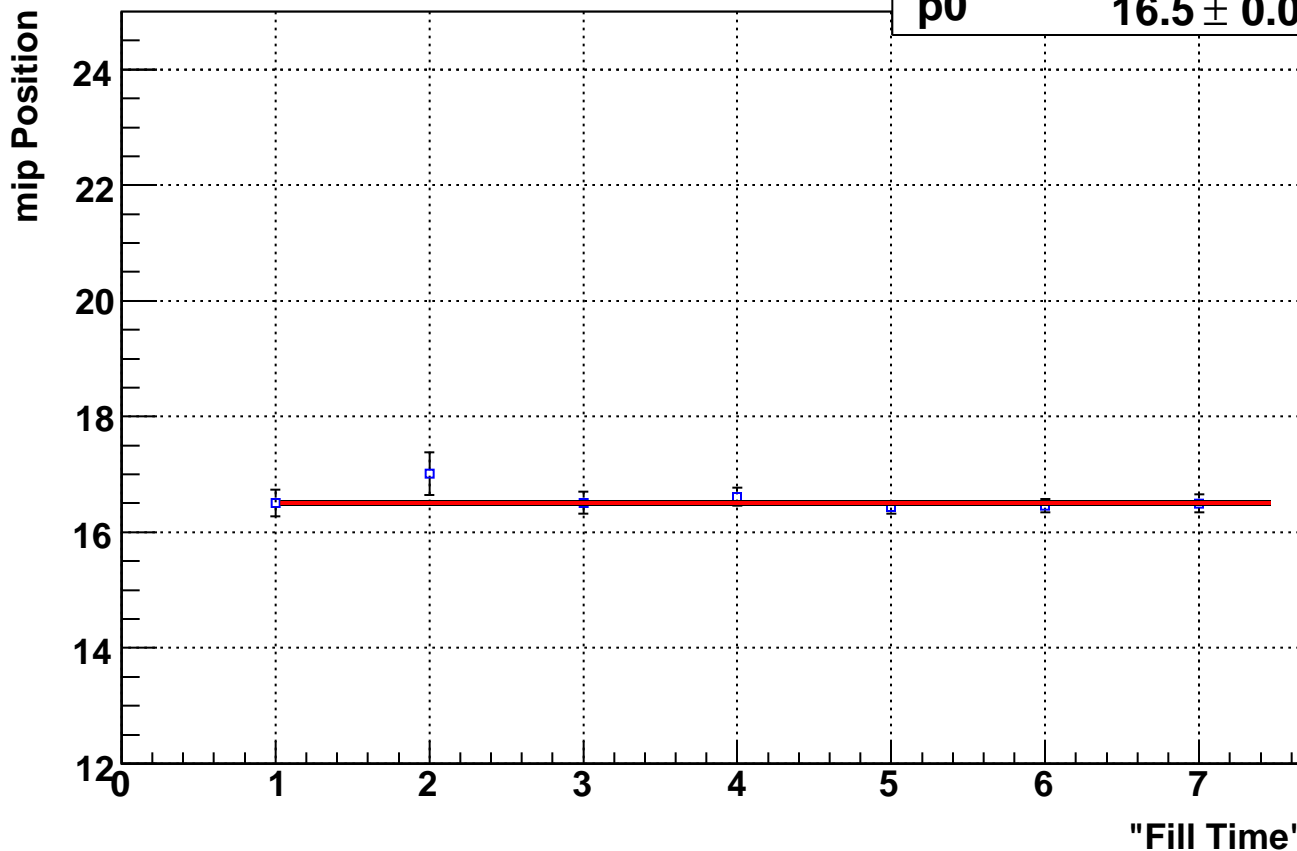
**Eta Bin 31 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

2.945 / 6

p0

$16.5 \pm 0.05784$



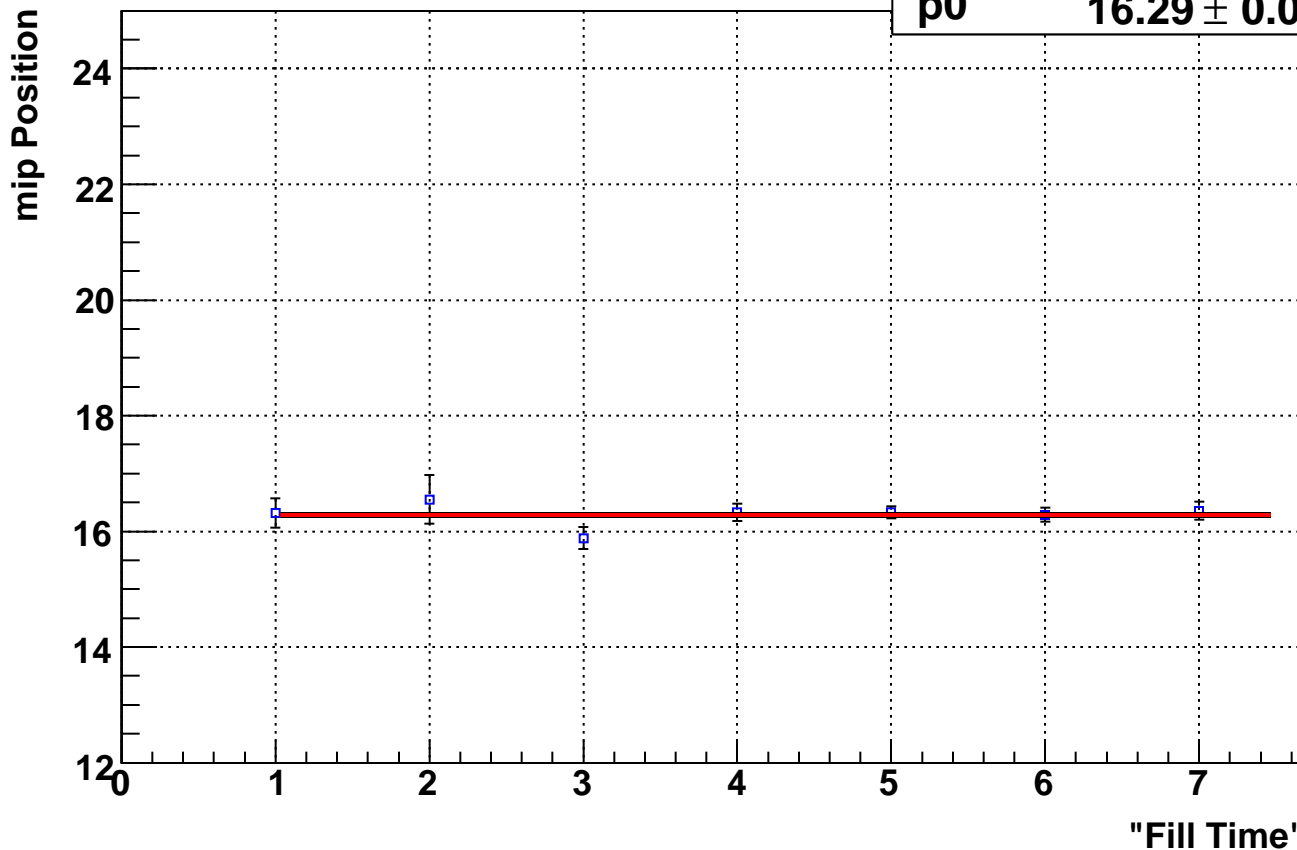
**Eta Bin 32 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

5.184 / 6

p0

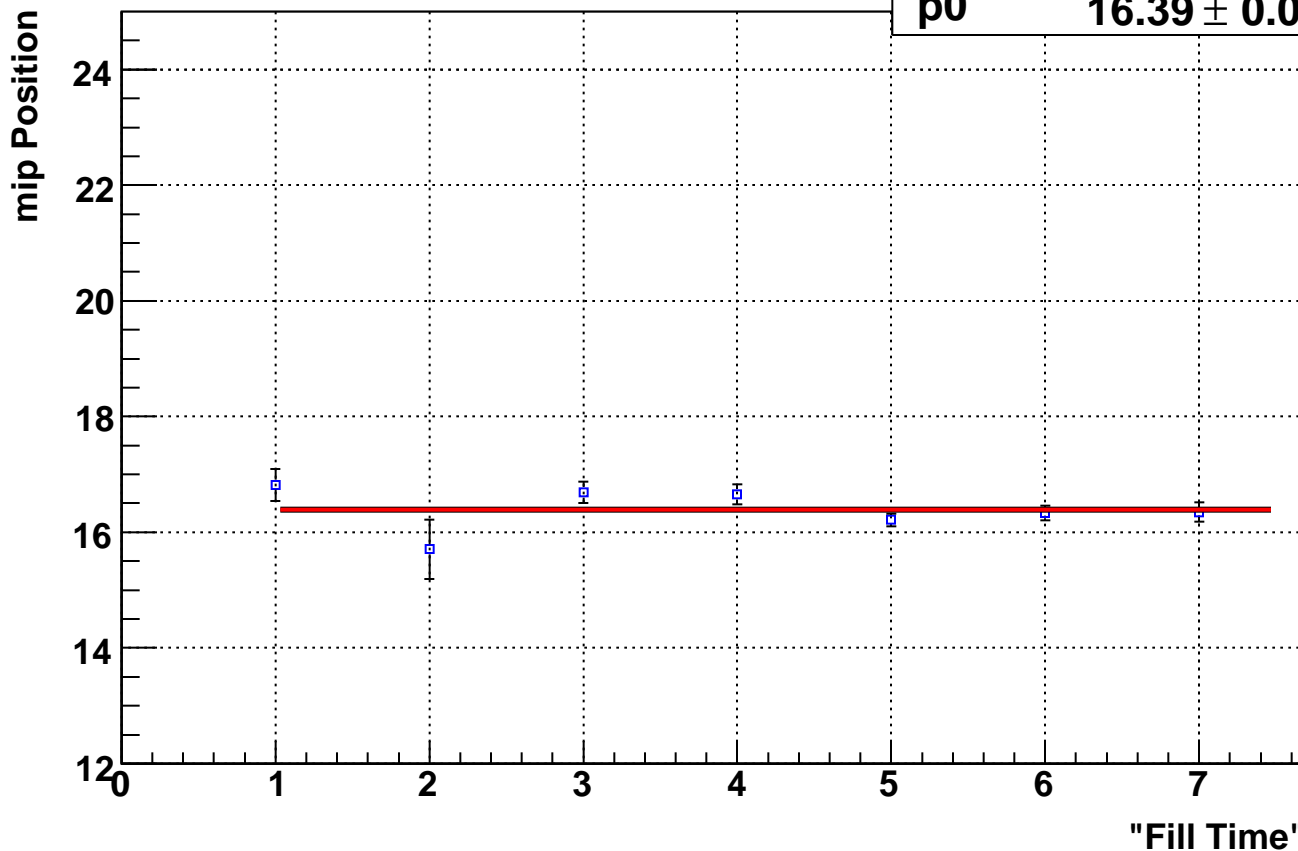
$16.29 \pm 0.05814$



**Eta Bin 33 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  12.11 / 6

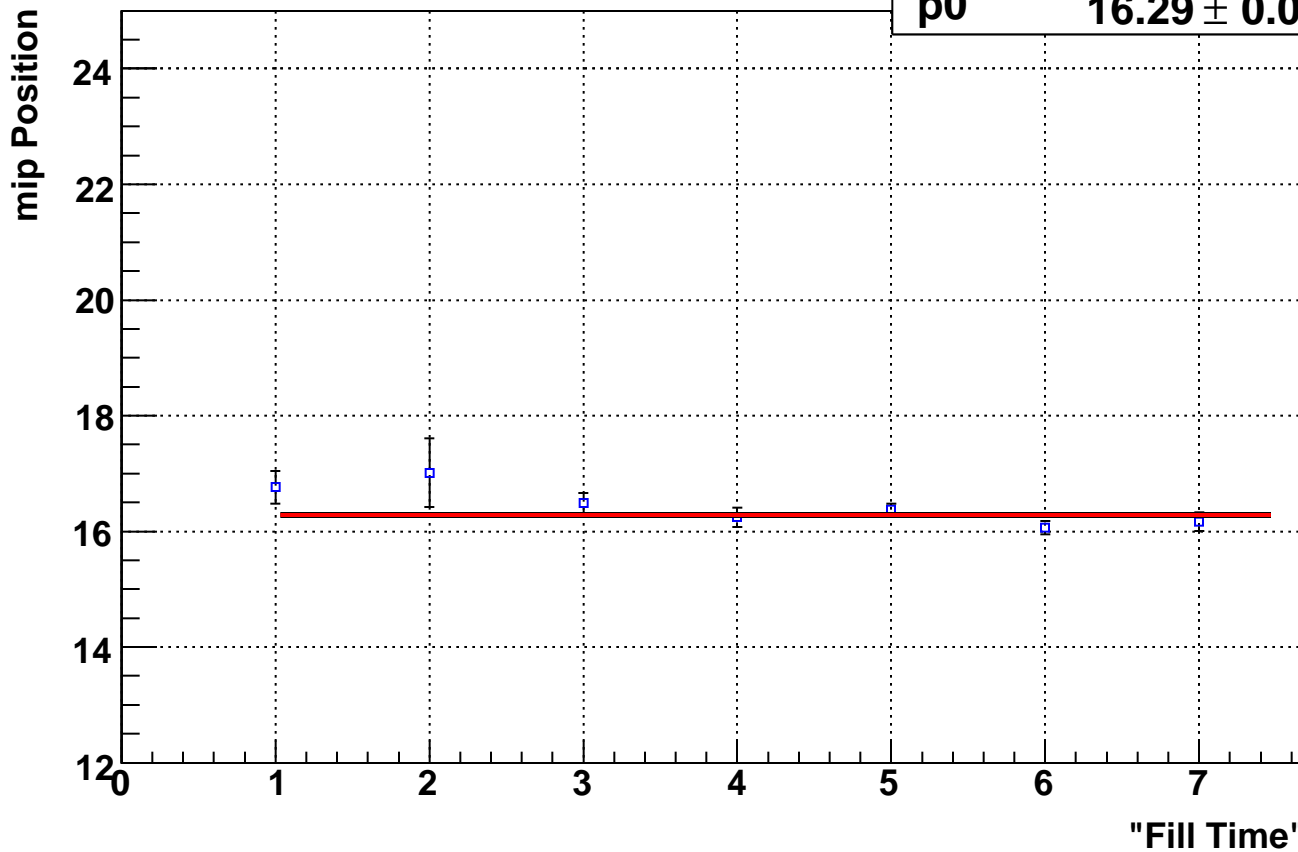
$p_0$   $16.39 \pm 0.06146$



**Eta Bin 34 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  10.51 / 6

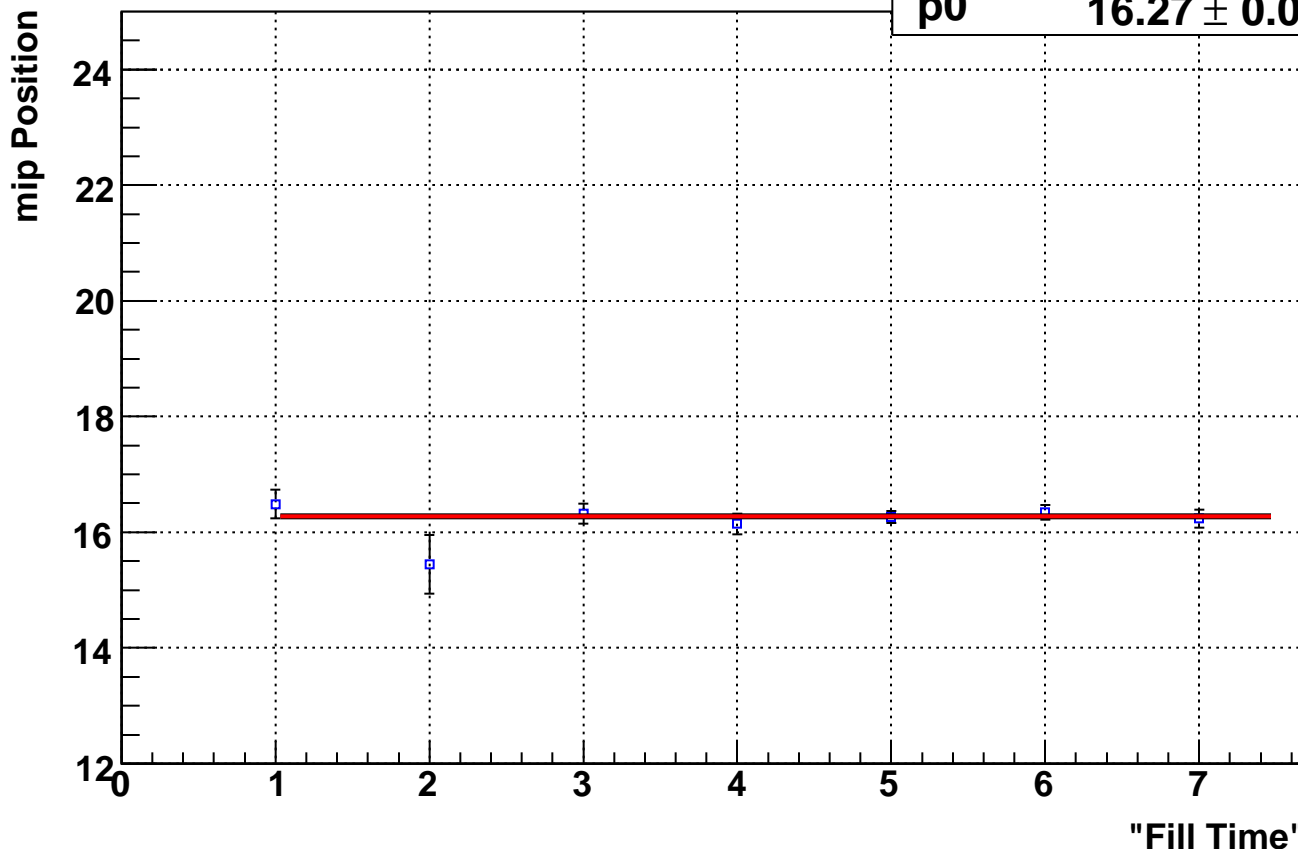
$p_0$   $16.29 \pm 0.05925$



**Eta Bin 35 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  4.405 / 6

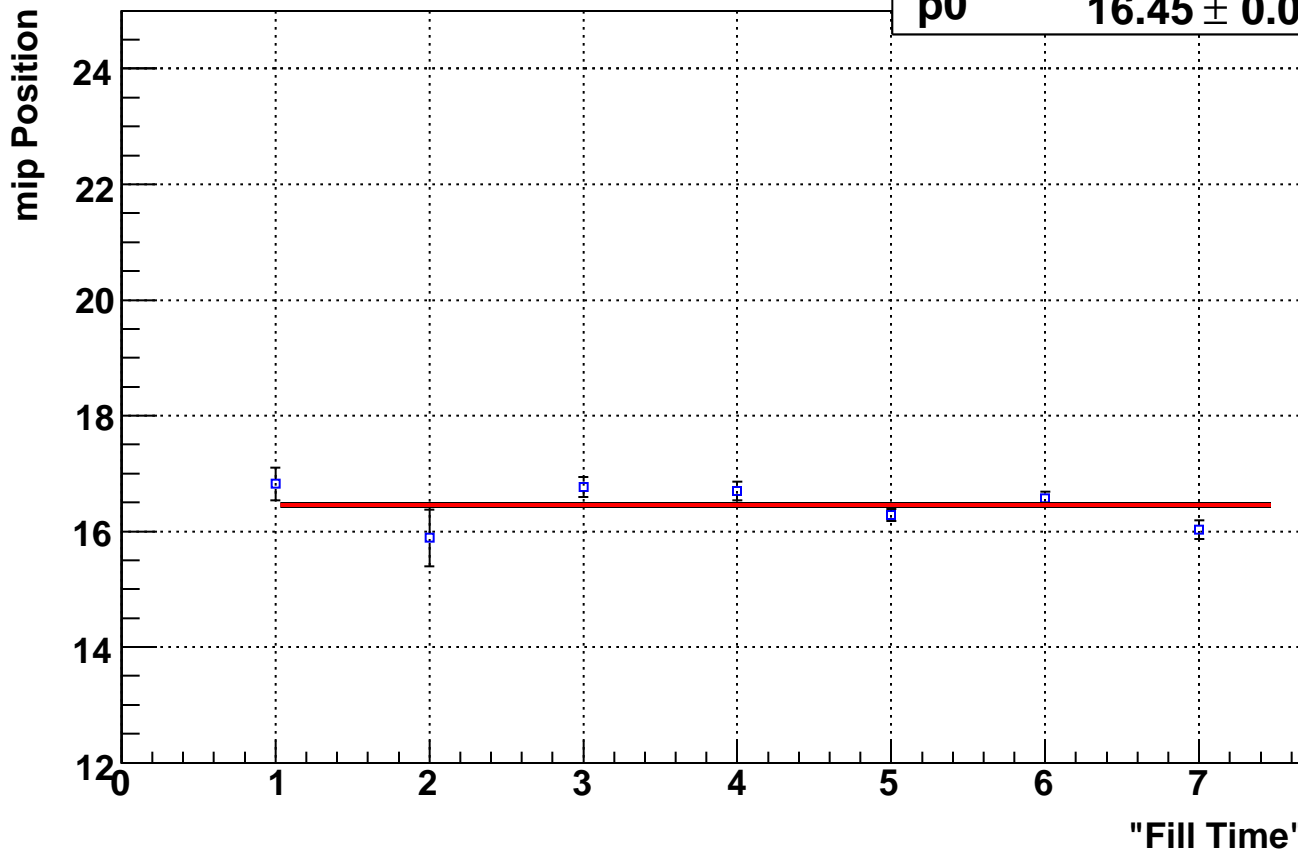
$p_0$   $16.27 \pm 0.06048$



**Eta Bin 36 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  19.62 / 6

$p_0$   $16.45 \pm 0.05777$



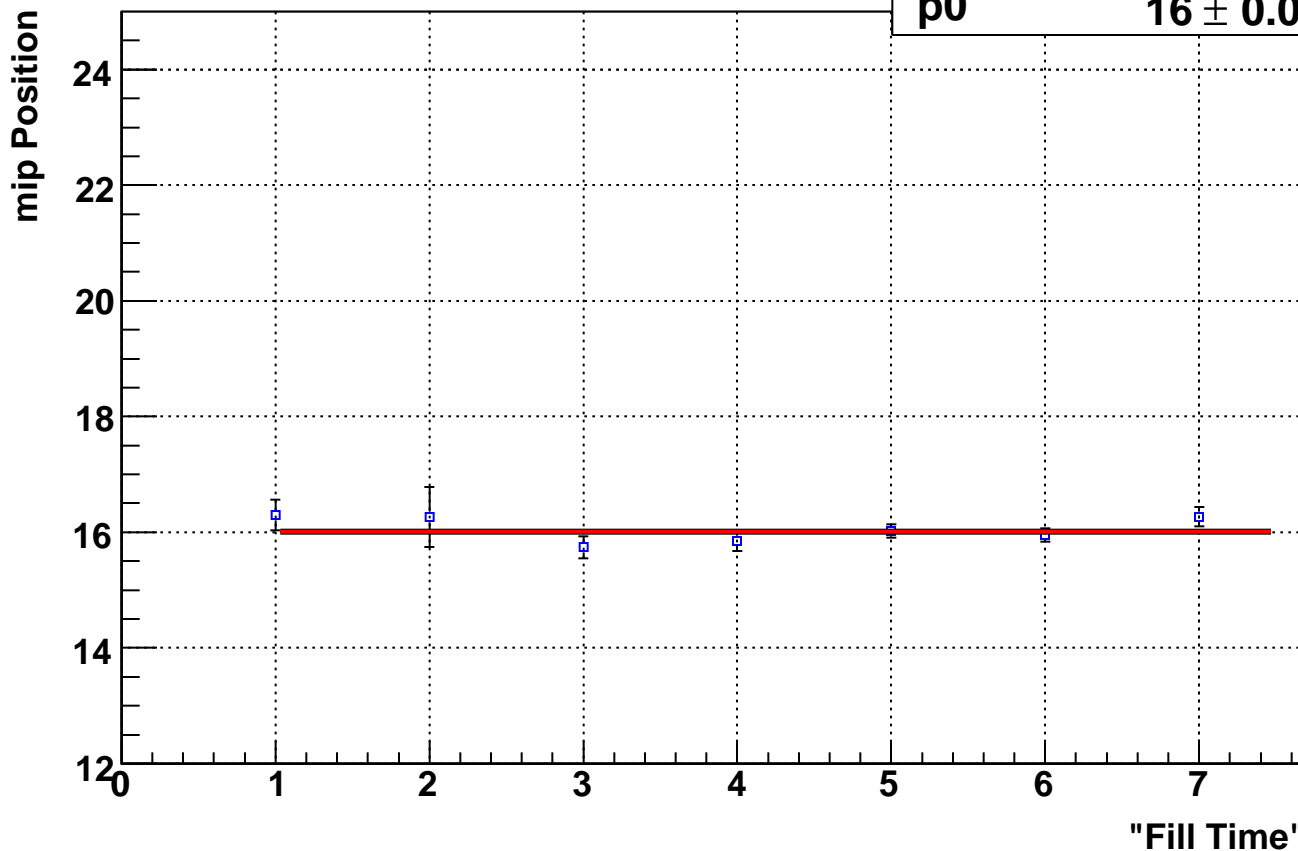
**Eta Bin 37 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

6.964 / 6

p0

$16 \pm 0.06103$



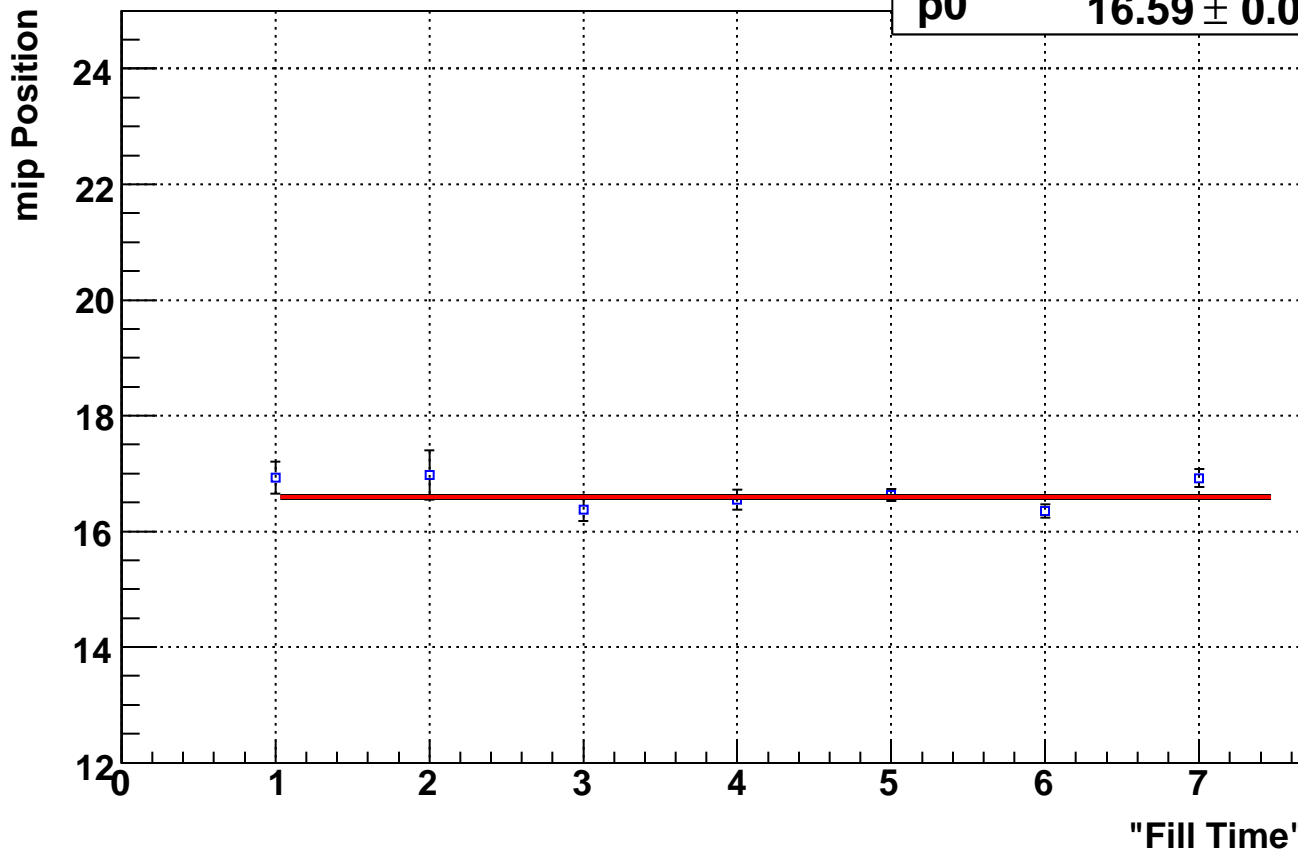
**Eta Bin 38 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$

12.18 / 6

p0

$16.59 \pm 0.05888$

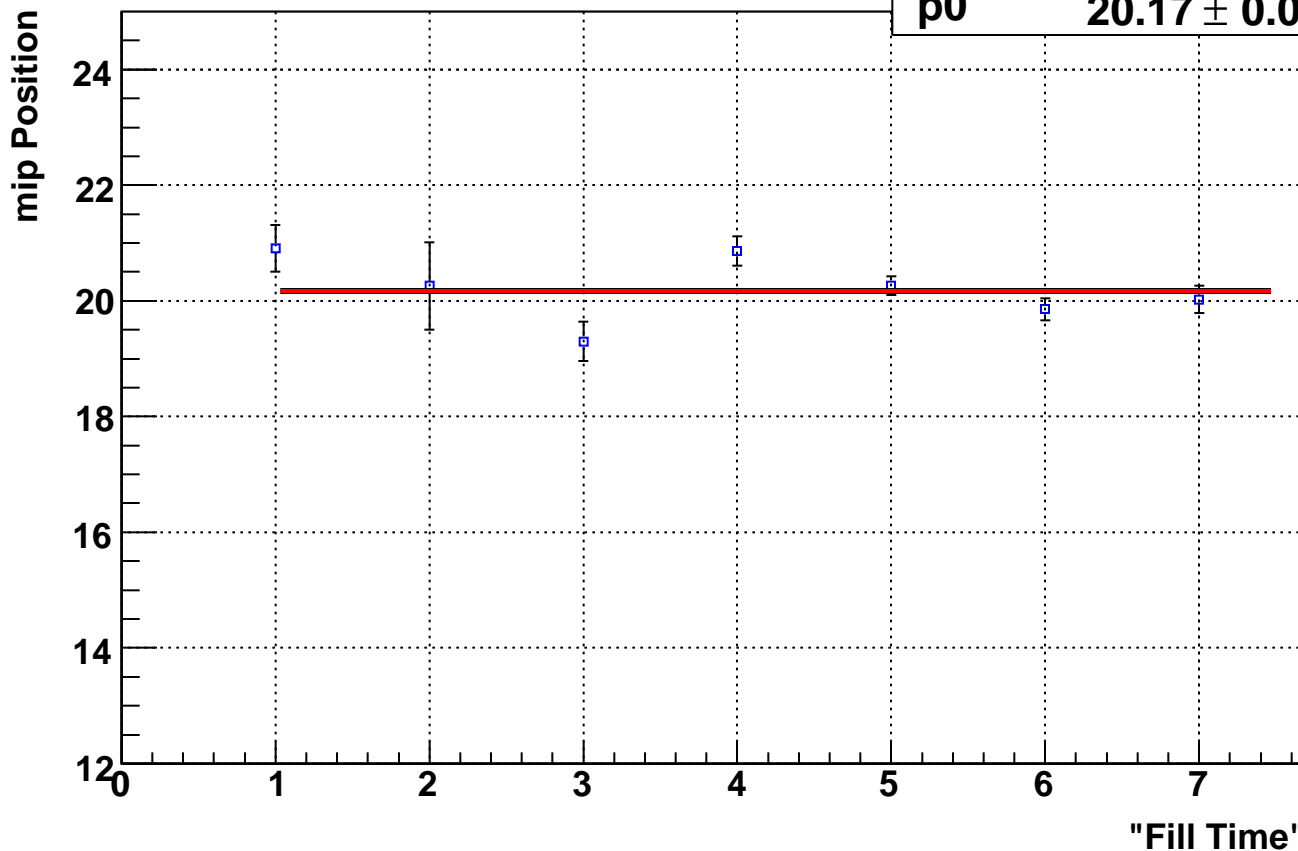




**Eta Bin 39 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  21.01 / 6

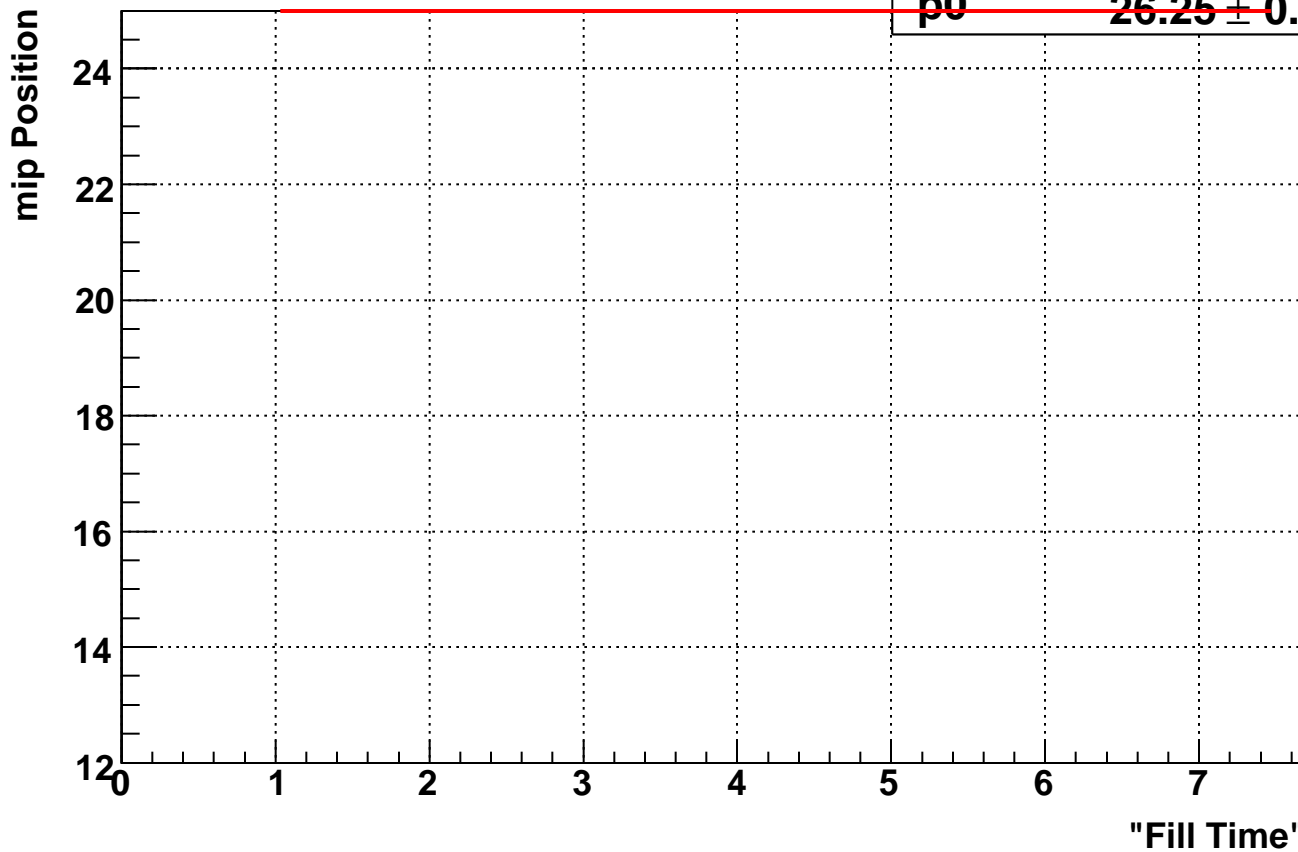
$p_0$   $20.17 \pm 0.09247$



**Eta Bin 40 mip Positions Vs. Time (rebinned)**

$\chi^2 / \text{ndf}$  4.264 / 6

$p_0$   $26.25 \pm 0.1824$



# Chi Squared vs. Bin Number

